Dreambox DM 600 PVR

DREAM
multimedia

Bedienungsanleitung

Digitaler Satellitenempfänger zum Empfang von freien und verschlüsselten DVB-Programmen.

Kommunikations-Schnittstelle
Anschluss für interne Festplatte
Smartcard Leser
Linux OS

User Manual

Digital satellite receiver for free and encrypted Digital Video Broadcasting (DVB).

Communication-Port
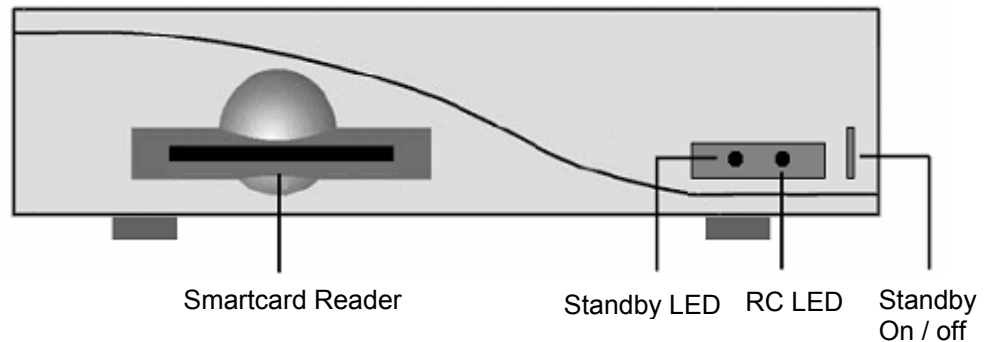**Internal hard disk support**
Smartcard Reader
Linux OS

DVB
Digital Video
Broadcasting

Stab - USALS
UNIVERSAL SATELLITES
AUTOMATIC LOCATION SYSTEM

DOLBY
DIGITAL
Streaming

1. T a b l e   o f   c o n t e n t s

Note: The Dreambox DM 600 PVR carries the CE-sign and fulfills all requirements form the EU.
Subject to change without prior notification.

2.   **V i e w s**

Front panel

Smartcard Reader   Standby LED   RC LED   Standby On / off

Rear panel DM 600 PVR-C/T

Antenna input   Antenna output   Serial interface   TV Scart   Network interface

S-Video output   Audio output (analog)   Video output   Modem port   Audio output (digital)   Power supply connector

Rear panel DM 600 PVR-S

LNB input   LNB output   Serial interface   TV Scart   Network interface

S-Video output   Audio output (analog)   Video output   Modem port   Audio output (digital)   Power supply connector
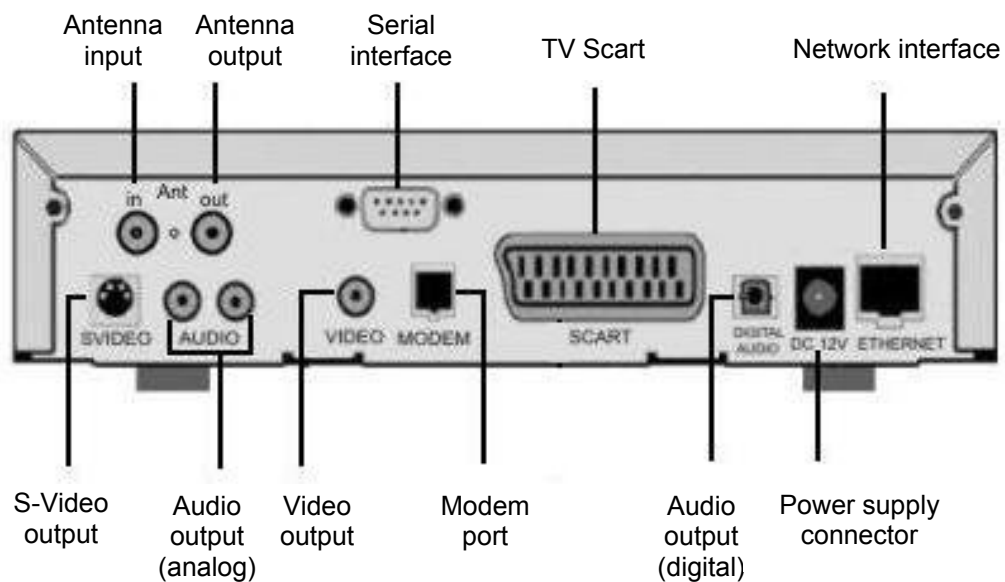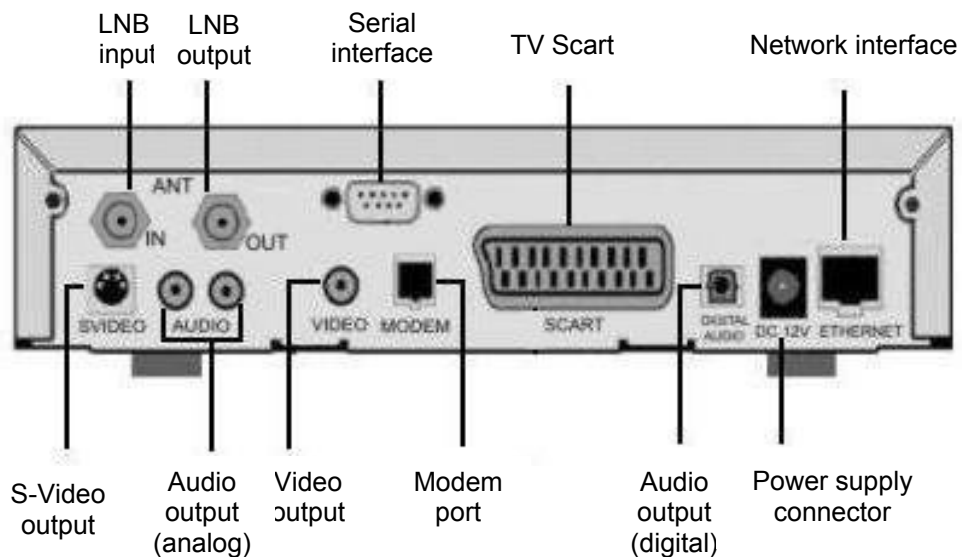
3. E x p l a n a t i o n f r o n t p a n e l

Smartcard Reader

Insert your Dreamcrypt Smartcard with the golden chip facing down and forward into the Smartcard reader. Dreamcrypt is a registered trademark of Dream-Multimedia.

Standby LED

The Standby LED lights up red if the Dreambox is in standby mode. It lights up green if the Dreambox is powered on.

Remote Control (RC) Led

The remote control LED lights up every time the Dreambox receives a signal from the remote control.

Standby on/off

The Standby on/off button toggles between standby mode and powered on mode.

4. E x p l a n a t i o n r e a r p a n e l

Antenna input (DM 600 PVR-C/T)

Connect your antenna cable here.

Antenna output (DM 600 PVR-C/T)

You can optionally connect your TV or VCR here.

LNB input (DM 600 PVR-S)

Connect the coaxial cable from your LNB here.

LNB output (DM 600 PVR-S)

You can connect an analogue/digital receiver here. Remember to shutdown your Dreambox completely in order for the receiver to work.

Modem port

You can connect your Dreambox to your ISP via the Modem Socket using a phone line.

S-Video out

Connect the S-Video out of your Dreambox to the S-Video in of your desired device, e.g. a Beamer.

Video output (FBAS)

You can optionally connect your Dreambox to a TV using a RCA/Chinch cable. (Composite)

Audio output - analog (Cinch)

Connect your Dreambox with a RCA/Cinch cable to your HiFi-Amplifier (e.g. AUX In or Tape In ports).

Serial interface (RS232C, Sub-D, 9-pin)

The Serial Port is used to update the operating system. Please connect a serial null modem cable here.

TV Scart

Connect your TV or beamer to your Dreambox using a Scart cable.

Audio output - digital (Toslink)

You can connect your Dreambox with an optical (Toslink) cable to your HiFi-Amplifier or DSP. The AC3 signal is also available at this port in case the selected channel transmits Dolby Digital signals.

Power supply connector

Plug the power cable of the power supply that came with your Dreambox into power outlet. Connect your power supply to your Dreambox. You must not connect the power plug of the power supply to anything other than a socket that supplies 230V/50Hz.

Network interface (Ethernet 10/100Mbit, RJ45)

The Communication Port is an Ethernet port. It is used to communicate with your Dreambox via HTTP, FTP, NFS, Telnet and Samba. This port is also used to update the operating system of your Dreambox. Please use a regular patch cable to connect your Dreambox to your LAN.

5. S a f e t y I n s t r u c t i o n s

Please read the safety instructions completely and carefully, before using the Dreambox. The Manufacturer takes no responsibility for incorrect handling of the Dreambox.

- Allow enough space around the Dreambox for sufficient ventilation.

- Do not cover the Dreambox's ventilation openings with items such as newspapers, tablecloths, curtains etc.

- Do not expose the Dreambox to dripping or splashing liquids.

- Do not place open flame sources, such as lit candles, on the Dreambox.

- Do not place any containers with liquid, such as vases, on the Dreambox.

- Do not connect or modify cables while the Dreambox is connected to the power.

- Do not remove the cover. Risk of electric shock!

- Do not put any metal things into the slots or ventilation openings.

- Please note that the only way to isolate the Dreambox completely from the main power supply is to unplug the main power cable!

WARNING!
Modifications and changes to the Dreambox lead to loss of warranty.
We recommend the installation of a hard disk by your local dealer.
Unskilled installation of a hard disk leads to loss of warranty.

ATTENTION!
We recommend the installation of a hard disk by your local dealer.
Unskilled installation of a hard disk leads to loss of warranty.

6.   S h u t   D o w n

- In case your Dreambox is in use for a longer period of time disconnect the power plug from the power outlet.

- During thunder storm the unit should also be physically disconnected from the power outlet.

7.   A d d i t i o n a l   s a f e t y   i n s t r u c t i o n s

- (Dis-)Connecting to a LNB:
  Turn the Dreambox off before you connect or disconnect a cable coming from a LNB.

- Connecting to a TV:
  Before connecting or disconnecting your Dreambox to a TV please turn it off.

- In case you notice any damage to the power cord or power plug immediately disconnect the unit from the power outlet.

- In case the unit was exposed to humidity immediately disconnect the unit from the power outlet.

- In case you notice any serious damage to the outer shell of the unit immediately disconnect the unit from the power outlet.

- Do not expose the Dreambox to direct sunlight, lightning or rain.

- Grounding:
  The LNB cable must be grounded.
  The grounding system must match SABS 061.

- Cleaning:
  Disconnect the mains power cord before cleaning the cover. Use a slightly damp cloth without cleaning agents

- Connect the Dreambox only to suitable sockets. Do not allow overloads to occur.

8.   Disposal instructions

The packaging of the Dreambox only consists of reusable materials. Please recycle if possible.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Please note that empty batteries and electric waste is not to be put into the regular garbage.

9.   P a c k a g i n g   c o n t e n t s

Please check the completeness of the box.
Included in box:

-     1 Dreambox DM 600 PVR
-     1 Power supply
-     1 Power cord
-     1 Remote control
-     2 Batteries (1,5V Micro / AAA / LR6)
-     1 User manual (latest release via Internet http://www.dream-multimedia-tv.de)

10.   I n s t a l l a t i o n

-     Insert 2 AAA (1,5V) batteries, taking care to observe the + and - markings indicated inside, into the remote control.

-     Before using the Dreambox, please read the safety instructions.

-     Connect the LNB or antenna with a coaxial cable to LNB or Antenna In at your Dreambox.

-     Connect the Dreambox with a Scart cable to your television screen.

-     Plug in the power cable into a 230V/50Hz power socket.

-     If you are using a switchable power socket please shutdown your Dreambox into deep standby before switching off the power socket.

-     If you switch on your Dreambox for the first time, you will see the setup wizard. The setup wizard will guide you through the first time installation. You will be asked for your TV standard, the regional settings and your language. Please choose and follow the instructions on the screen.

-     Please note that the video format meets the factory setting CVBS (FBAS).

11.   R e m o t e   C o n t r o l

SHIFT / SETUP-Button	**Power-Button**
DREAM-Mode-Button	**TV-Mode-Button**
Numeric-Keypad	
Arrow-Left-Button	**Arrow-Right-Button**
Mute-Button	**EXIT-Button**
Volume +/- Buttons	**Bouquet +/- Buttons**
INFO-Button	**MENU-Button**
Navigation-Buttons	**OK-Button**
AUDIO-Button	**VIDEO-Button**
Options-Buttons (PVR-Mode)	
TV-Button (PVR-Mode)	**HELP-Button**
RADIO-Button (PVR-Mode)	**TEXT–Button**
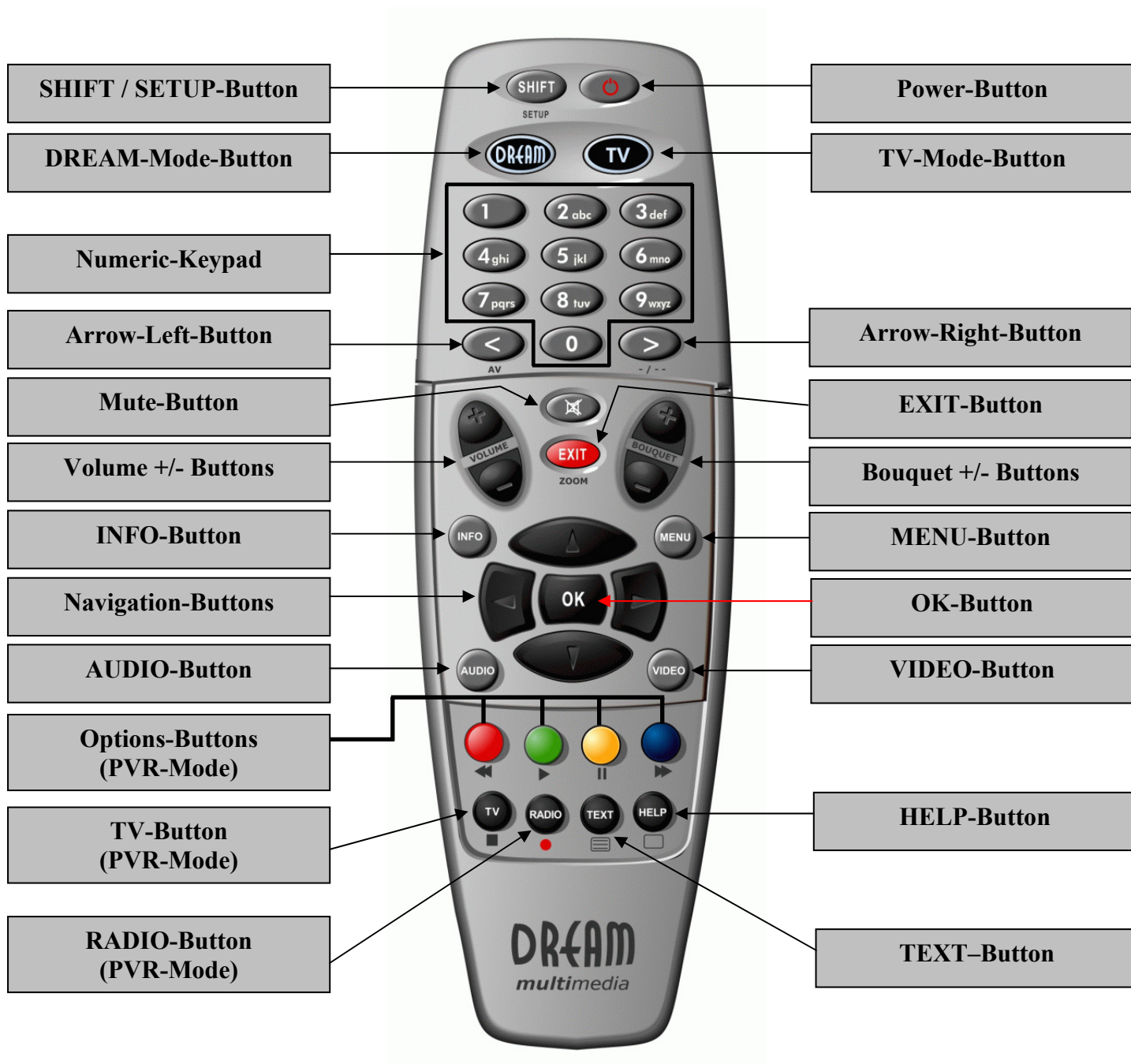
12.   Important notes about operation

All functions of the Dreambox can be controlled via OSD-Menu (On-Screen-Display). This makes the handling of the Dreambox very easy for you. All options are indicated by four colored dots or beams (red, green, yellow, blue) in the OSD-Menu and can be started with the Option-Buttons on the Remote Control.

Depending on the chosen Menu, these options do change.

The **Options-Buttons** of your remote control have multiple functions. You will notice control symbols below the four colored **Options-Buttons**, the **TV-** and the **RADIO-Button**. In PVR-Mode these buttons are used to control the digital recording according to their symbols. Pressing the **VIDEO-Button** on your remote control will activate the PVR-Mode. The Infobar will also indicate this. It changes from showing the channel information to showing the control symbols for the PVR-Mode. (also see *Instant recording*)

All Menus and Service lists are closed with the **EXIT-Button.**

In general the menus are controlled using the **Navigation-Buttons** on your remote control.

Navigation-Buttons

To get into a submenu you have to press the **OK-Button**.

13.   Remote Control Buttons

MENU-Button

If you are in TV- or RADIO-Mode, pressing this button will bring up the OSD main menu. The OSD main menu has the following options:

- (1) TV Mode
- (2) Radio Mode
- (3) File Mode
- (4) Information
- (5) Shutdown
- (6) Setup
- (7) Games
- (8) Timer

You can switch to the needed option by pressing the **Navigation-Buttons** left or right. Also see: *Important notes about operation*.

The numbers in front of each option can be used to directly access the needed function by pressing the according number on the **Numeric Keypad** of your Remote control.

If you are in the service list, pressing the **MENU-Button** brings up the service menu. The shown options may vary depending on the service list you selected.

SHIFT / SETUP-Button

The **SHIFT/ SETUP-Button** is used to preprogram the remote control to operate a TV. See chapter *TV-Mode setup*.

Power-Button

The **Power-Button** switches your Dreambox on and off.
See chapter *Turning your Dreambox on and off*.

DREAM-Mode-Button

The **DREAM-Mode-Button** switches your remote control into Dreambox control mode. It will shortly light up once your press the button.

TV-Mode-Button

The **TV-Mode-Button** switches your remote control into TV control mode to control your preprogrammed TV. It will shortly light up once your press the button.
See chapter *TV-Mode setup*.

Numeric-Keypad

Enter a service number to directly access the option by using the **Numeric Keypad**. The service numbers are on the left side of the service list.
The **Numeric Keypad** can also be used to enter the teletext page number when you are in TV-Control-Mode and if your TV is teletext capable. The TV station has to submit teletext information; otherwise this feature cannot be used.

Arrow-Left-Button   ### Arrow-Right-Button

The **Arrow-Left** and **Arrow-Right-Button** enable you to jump back and forth between the last 20 channels you have watched.

Mute-Button

Pressing the **MUTE-Button** mutes the Volume. A crossed speaker symbol will appear on the TV screen. Pressing it again or pressing one of the **Volume +/- Buttons** brings back the audio.

EXIT-Button

You can leave all menus and service lists by pressing the **EXIT-Button**.

INFO-Button

If no OSD menu is visible on the screen and you are in TV or RADIO-Mode, pressing the **INFO-Button** will reveal the EPG information of the chose channel if it is available.

OK-Button

By pressing the **OK-Button** you confirm a selection in the menu or service list navigation. If no OSD menu is present on your screen, the infobar is shown once you press the **OK-Button**.

Navigation-Buttons

In general the menus are controlled using the **Navigation-Buttons** on your remote control. To get into a submenu you have to press the **OK-Button**.

Volume +/- Buttons

The **Volume +/- Buttons** control the volume of the audio. Pressing **+** will make turn it up and pressing **-** will turn it down.

Bouquet +/- Buttons

Pressing the **Bouquet +/- Buttons** will jump back and forth between the bouquets.

AUDIO-Button

By pressing the **AUDIO-Button** you can choose the different audio tracks offered by the station.

VIDEO-Button

Pressing the **VIDEO-Button** activates the PVR-Mode. The Infobar will show the control symbols. You can instantly start recording by pressing the **Radio-Button** on your remote control. You can also toggle between single-, double- and trible-column-view in the service list.

Options-Buttons

All possible options are shown by the four colored dots/blocks (red, green, yellow, blue) and can be activated by the **Options-Buttons**. In PVR-Mode these buttons are used to control the digital recording.

Depending on the menu you currently are in the options will change and will be named differently.

TV-Button

Pressing the **TV-Button** activates the TV-Mode.

RADIO-Button

Pressing the **RADIO-Button** activates the RADIO-Mode.

TEXT-Button

The **TEXT-Button** activates the Teletext (TuxTxt). If you are in the stations list, pressing this button will directly take you to the FILE-Mode.

HELP-Button

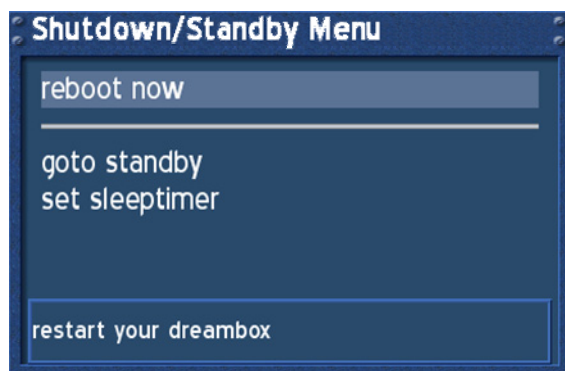Pressing the **HELP-Button** activates the Help menu.

14.   Turning your Dreambox on and off

Use the **Standby-Button** to turn your Dreambox on and off.

To put your Dreambox into Standby-Mode either press the **Standby-Button** on your remote control or on your Dreambox.

Holding down the **Standby-Button** on your remote control for three seconds will show the Shutdown / Standby menu.

This is the Shutdown / Standby menu. Navigate to the desired option and confirm by pressing the **OK-Button**.
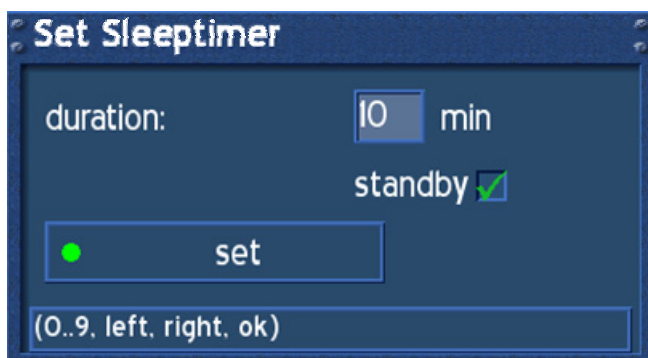
Reboot now:
Your Dreambox will be rebooted.

Goto standby:
Your Dreambox goes into standby mode.

Set sleeptimer:
You can find an explanation in the section Sleeptimer.

15. Sleeptimer

Press the Power-Button for at least 3 seconds, select "**set sleeptimer**" to access this menu.

This is he sleeptimer menu.

Define a maximum duration of 240 minutes. Define if the Dreambox should shutdown or should go into standby mode by setting a check into one of the checkboxes beside shutdown and standby using the **OK-Button**.

Either press the **green Options-Button** or the **OK-Button** to accept the setting.

16. Main OSD menu

If no OSD menu is shown on your screen you can access the main OSD menu by pressing the **Menu-Button** on your remote control.

Through the main OSD menu you can access the submenus and functions of your Dreambox. Please use the **Navigation-Buttons left** and **right** or **up** and **down**, depending on you main OSD menu's view, to access the desired functions and submenus. Use the **OK-Button** to activate your selection.

As an alternative you can directly access the submenu or function by pressing the corresponding number in your remote control's **Numeric Keypad**.
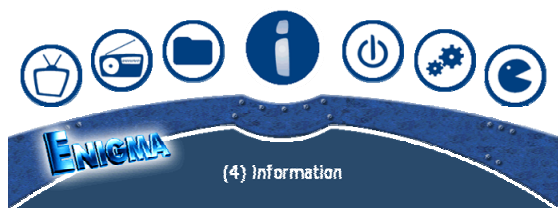
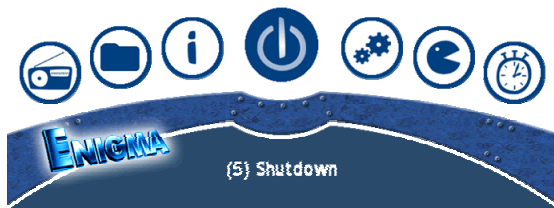Selecting this symbol activates the TV mode.
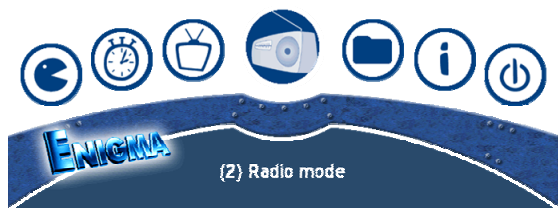
Selecting this symbol activates the Radio mode.

Selecting this symbol activates the file mode.

Selecting this symbol takes you to the Info menu. The Info menu supplies you with additional information about the station, signal strength and software version of you Dreambox.

Selecting this symbol takes you to the shutdown menu. Selecting the option 'Shutdown now' will turn you Dreambox off. Pressing the **Power-Button** on your remote control will turn your Dreambox on again.

Selecting this symbol takes you to the setup menu. You can change all your Dreambox's settings in the setup menu.

Selecting this symbol takes you to the games.

Selecting this symbol takes you to the Timer menu. All set timers can be viewed, changed and deleted here.

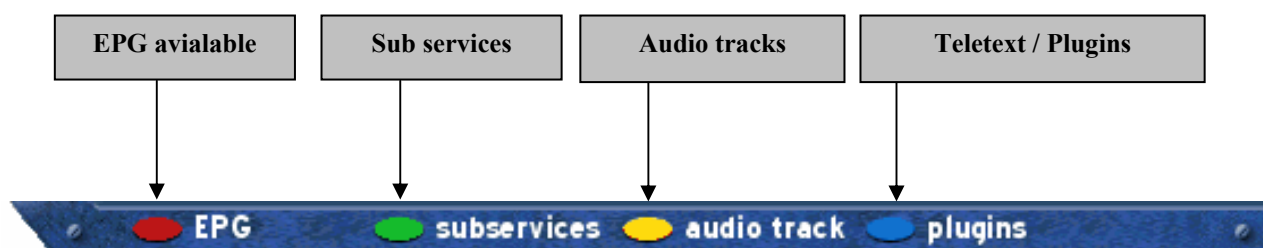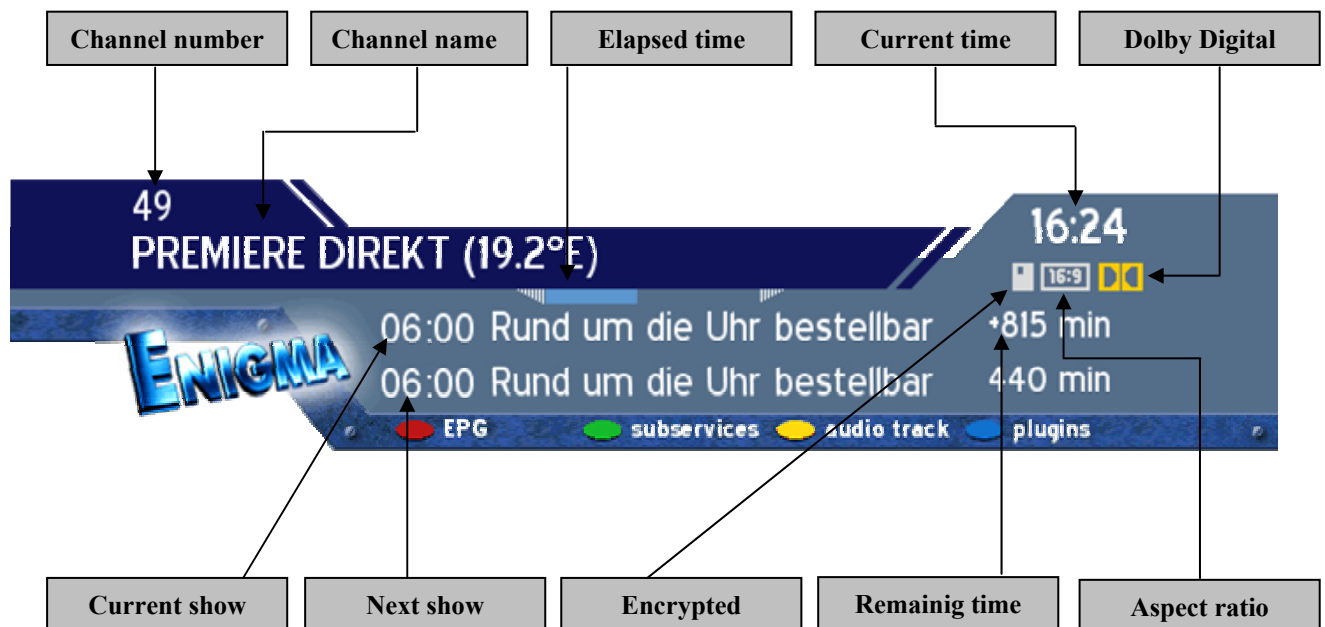Through the menu options
(5) Setup ->
(3) System ->
(6) OSD Settings ->
You can choose to view the main OSD menu as a regular menu.

See section OSD Settings.

17.   Infobar

The Infobar appears and disappears by pressing the **OK-Button** once, if no OSD menu is shown on your screen. The Infobar shows all necessary Information about the selected service.

| Channel number | Channel name | Elapsed time | Current time | Dolby Digital |

49
PREMIERE DIREKT (19.2°E)
06:00 Rund um die Uhr bestellbar   +815 min
06:00 Rund um die Uhr bestellbar   440 min
16:24
EPG   subservices   audio track   plugins

| Current show | Next show | Encrypted | Remainig time | Aspect ratio |

| EPG avialable | Sub services | Audio tracks | Teletext / Plugins |

EPG   subservices   audio track   plugins

| **Encrypted** | Is highlighted yellow as soon as a show is broadcasted encrypted. |

| **Aspect ratio** | Is highlighted yellow as soon as a show is broadcasted in 16:9 aspect ratio. |

| **Dolby Digital** | Is highlighted yellow as soon as a show is broadcasted in Dolby Digital. |

17.1   Infobar - EPG (Electronic Program Guide)

The red dot in the Infobar appears if the selected station transmits EPG information.

Attention: In PVR-Mode these buttons are used to control the digital recording.

If no OSD menu is visible on your screen and you are in TV mode press the **TV-Button** to access the service list.

Press the **Info-Button** to get to the selection of the EPG style.

Or you can press the **red Options-Button** to directly access the EPG of the station without having to go through the service list.

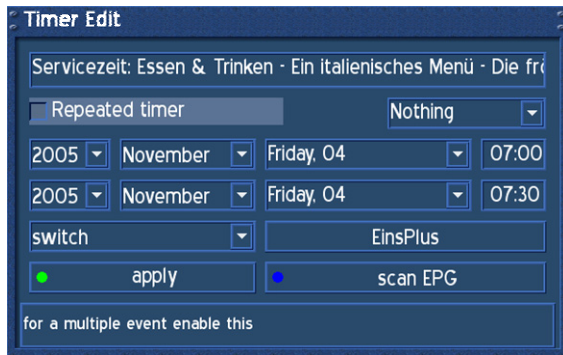Select „Channel EPG" and press the **OK-Button** to activate it.

Use the **Navigation-Buttons** to navigate to the desired event and press the **OK-Button** to view additional information.

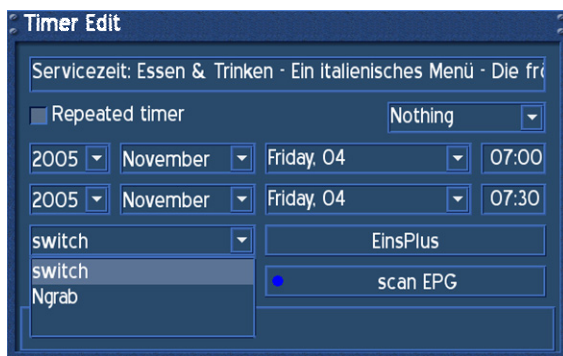Pressing the **EXIT-Button** will quit the EPG.

The **Options-Buttons** are mapped differently in this view, press the **Help-Button** to see an explanation.

Pressing the **green Options-Button** will show the "Timer Edit" menu. Use the **Navigation-Buttons** to reach the desired option and use the **OK-Button** to open up the drop down menus.

Change the setting to fit your needs.

The drop down menu „Switch" offers the same options that you can directly access from the EPG using the **colored Options-Buttons**.

„Switch" will switch to the desired service.
„NGrab" will record via LAN.

Press the **green Options-Button** to save your settings.

After saving you timer event you will be taken back to the EPG.

The set timers will be symbolized with a red clock symbol for NGrab Timers and a yellow clock symbol for Switch Timers.

Press the numbers 1-6 to adjust the number of hours shown on the screen. The red line marks the current time.

If you selected Multi-EPG when you were asked for the EPG style you will see this view.

Use the **Navigation-Buttons** to navigate to the desired event. The current selection is highlighted gray. Pressing the **Info-Button** once will show additional information. Pressing the **Info-Button** again will return you to the Multi-EPG screen.

Pressing the **OK-Button** in Multi-EPG mode will directly switch to the selected service.
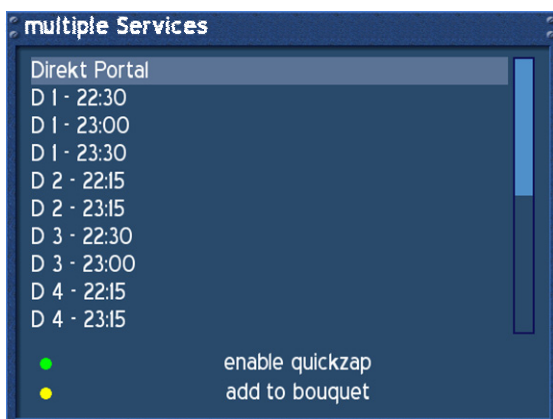
The **Options-Buttons** are mapped differently in this view, press the **Help-Button** to see an explanation.

Pressing the **EXIT-Button** will quit the EPG.

17.2   Infobar – Sub services

The green dot in the Infobar appears if the selected station transmits sub services.

Attention: In PVR-Mode these buttons are used to control the digital recording.

You can quit the Quickzap-Mode by either re-entering this menu and pressing the **green Options-Button** again or by accessing the service list and selecting a new service by pressing the **Navigation-Button up** or **down**.

Pressing the **green Options-Button** in TV or Radio mode will reveal the sub services menu.

Use the **Navigation-Buttons up** and **down** to move to one of the sub services. Press the OK-Button to select.

If you chose the option "Enable quickzap" (**green Options-Button**), you will stay in the sub services and can jump between the sub services by pressing the **Navigation-Buttons left** and **right**.

The option „Add to Bouquet" (**yellow Options-Button**) will add the selected service to a newly created or already existing Bouquet of your choice. See section *Managing Services*.

17.3   Infobar – Audio tracks

The yellow dot in the Infobar appears if the selected station transmits multiple Audio tracks.

Pressing the **yellow Options-Button** in TV or Radio mode will reveal the audio menu of the service.

Attention: In PVR-Mode these buttons are used to control the digital recording.
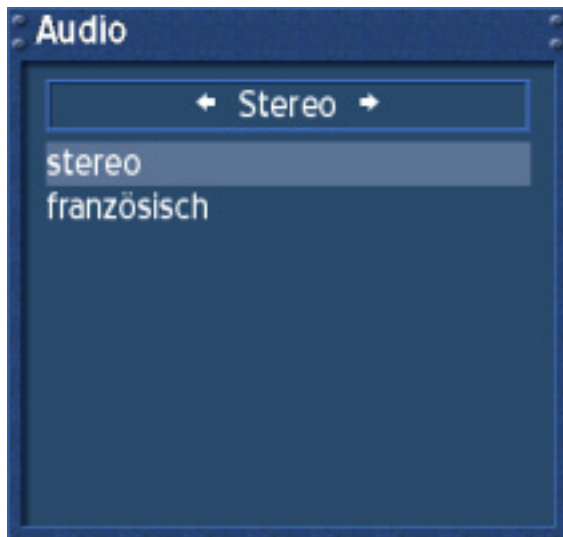
Use the **Navigation-Buttons up** and **down** to move to desired audio track. Press the **OK-Button** to select.

The contents of this menu will vary from service to service.

Move to the option "Stereo". Use the **Navigation-Buttons left** or **right** to choose the different audio modes, Left-Mono, Stereo, Right-Mono. Press the **OK-Button** to select.

17.4   Infobar - Plugins

The blue dot in the info bar is always visible.

Pressing the **blue Options-Button** in TV or Radio mode will reveal the Plugins menu.

Attention: In PVR-Mode these buttons are used to control the digital recording.
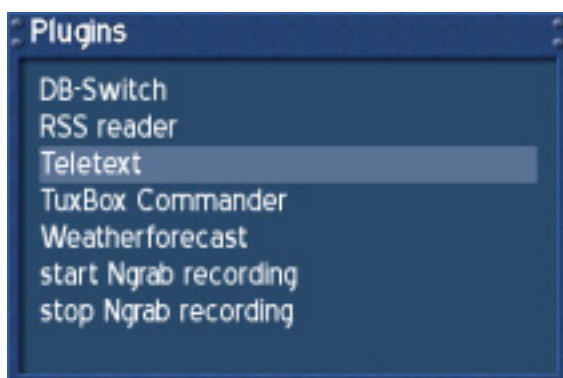
The option *Teletext - Software Decoder*" will open the service's teletext.

See section *Teletext (TuxText)*.

The options „*Start/Stop NGrab recording*" are still in development and therefore will not be explained in detail.

18.   Setting OSD language

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
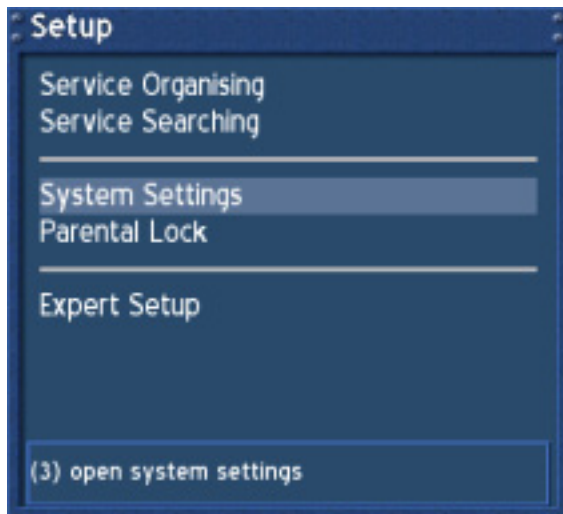
Navigate to the option "System Settings" and press the **OK-Button**.

The "System Settings" menu will open up.

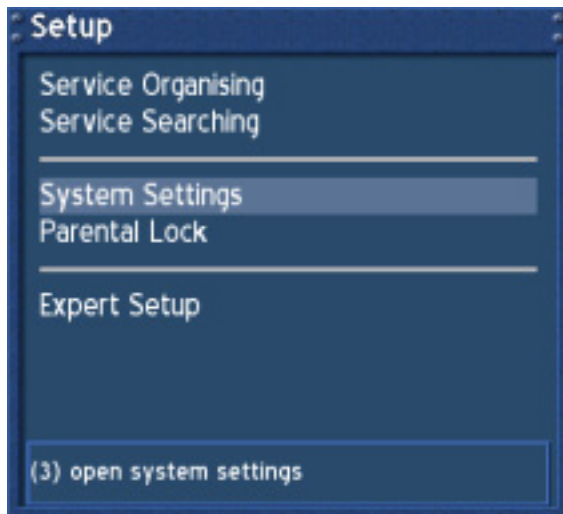Navigate to the option "OSD Language" and press the **OK-Button**.

The "OSD Language" menu will open up.

Select your desired and language with the **Navigation-Buttons up** and **down**. Press the **OK-Button** to activate.

The **Exit-Button** will quit this menu.

19.   Setting the time zone

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
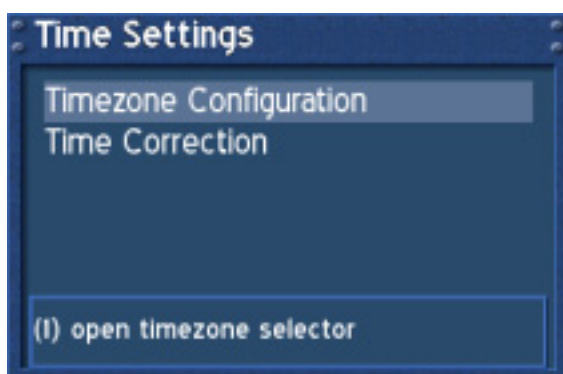
Navigate to the option "System Settings" and press the **OK-Button**.

The "System Settings" menu will open up.

Navigate to the option "Time" and press the **OK-Button**.

The "Time Settings" menu will open up.

You can either set your time zone or manually adjust the time of you Dreambox in this menu.

Navigate to the option "Time Zone Setup" and press the **OK-Button**.
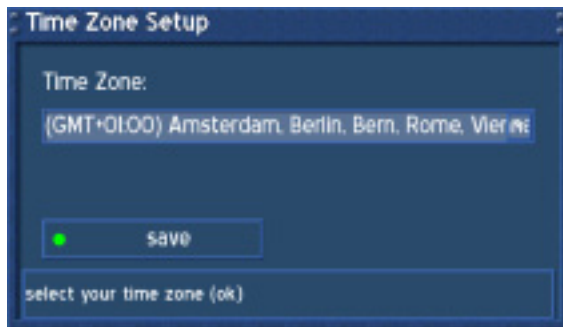
The "Time Zone Setup" menu will open up.

Press the **OK-Button** to get open the list of time zones.

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Select your desired and time zone with the **Navigation-Buttons up** and **down**. Press the **OK-Button** to activate.
The time zone list will disappear and you current selection is shown as seen in the picture above.
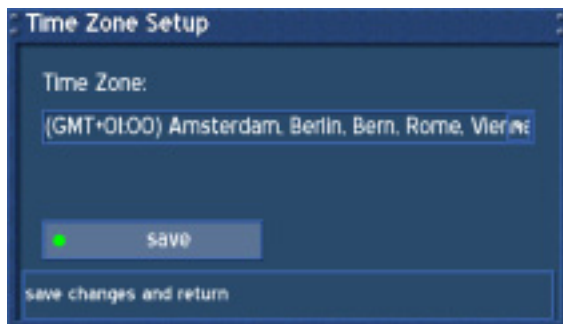
Navigate to the option "save" and press the **OK-Button** to save your settings. Optionally you can press the **green Options-Button** to save.

You are taken back to the "Time" menu.

19.1   Manual time correction

Please read the section **Setting the time zone** to learn how to get into this menu.
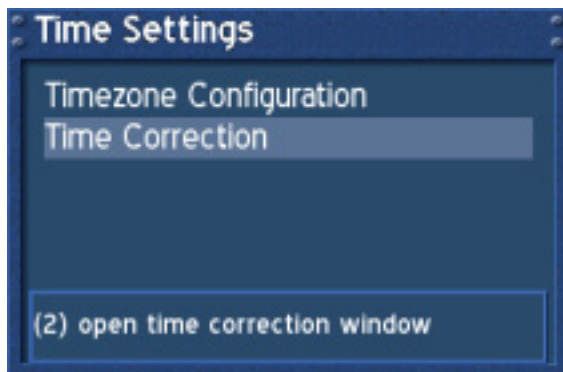
Navigate to the option "Time Correction" and press the **OK-Button**.

When entering this menu, please wait a second. The Dreambox tries to receive the current time. The Transponder Time and Date will be automatically updated. If this fails, enter the new time and date manually.

Navigate to the option "set" and press the **OK-Button** to save your settings. Optionally you can press the **green Options-Button** to save.

You are taken back to the "Time Settings" menu. Pressing the **Exit-Button** will leave this menu.

20.   Signal strength (Adjusting your antenna, DM 600 PVR-T)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
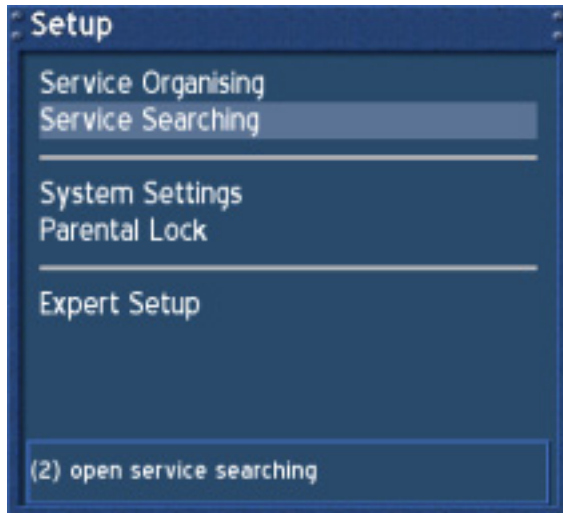
Navigate to the option "Service Searching" and press the **OK-Button**.
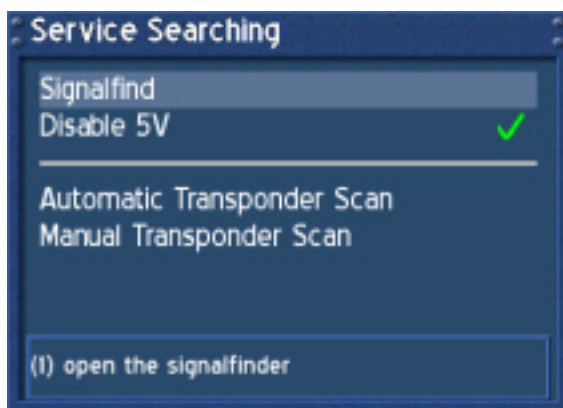
Navigate to the option "Signalfind" and press the **OK-Button**.

Press the **OK-Button** to select a transponder.

Choose the region where you live in from the drop down menu „Region" and press the OK-Button.

Move your antenna around a bit and keep an eye on the SNR and SGC values. The higher they are the better the reception is.

Pressing the **Exit-Button** will leave this menu.

20.1   Disable 5V (DM 600 PVR-T)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
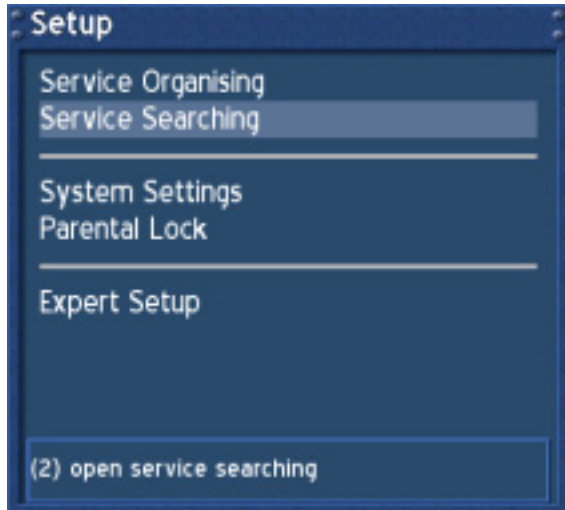
Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Disable 5V".

Press the **OK-Button** to set a check behind this option if you use a passive antenna.

If you connected an active antenna and want to use it without its power supply, press the **OK-Button** to remove the check behind this option.

20.2 Automatic transponder scan (DM 600 PVR-T)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Automatic Transponder Scan" and press the **OK-Button**.

Select the region you live in the drop down menu and press the **OK-Button**.

You now should see that a valid transponder has been found and the checkboxes in front of "LOCK" and "SYNC" should be checked.

SNR:
Signal to Noise Ratio

AGC:
Automatic Gain Control

BER:
Bit Error Rate (should be equals 0 if possible)

only Free:
If you check the checkbox in front of the "only Free" option, your Dreambox will search on for FTA (non-encrypted) services.

Press the **green Options-Button** to start searching.

After you started searching you will see the progress bar and the estimated remaining time.

Please wait until your Dreambox finished searching for services.

You can always abort the searching by pressing the **Exit-Button** several times.

Once your Dreambox is done searching you will see this menu on the right. A brief summary of the search is shown.

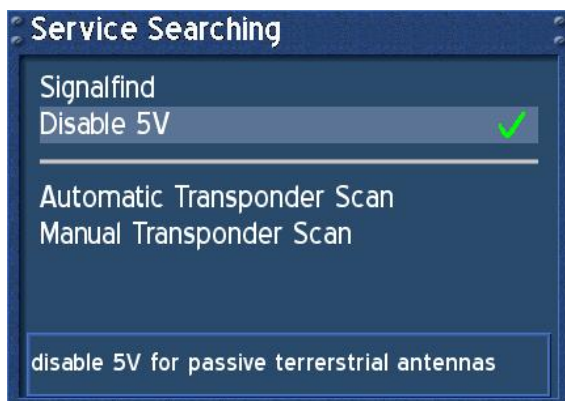Press the **OK-Button** to close this menu.

20.3   Manual Transponder scan (DM 600 PVR-T)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

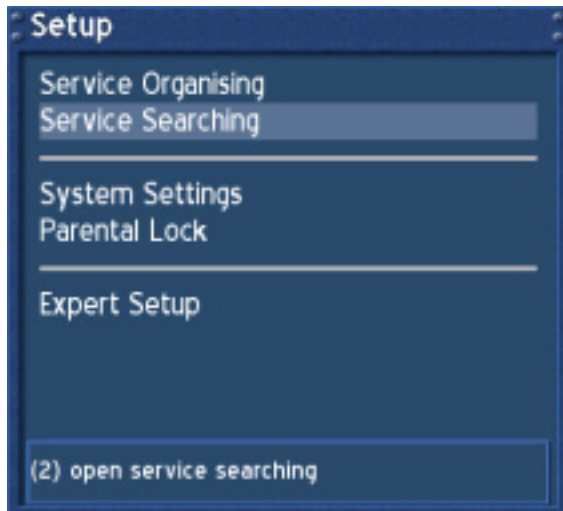Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Manual Transponder Scan" and press the **OK-Button**.

Enter the desired frequency with the **Numeric Keypad** on your remote control.

Use the **Navigation-Buttons** to reach the individual options.

Press the **green Options-Button** to start the scan.

21.   Automatic transponder scan (DM 600 PVR-C)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
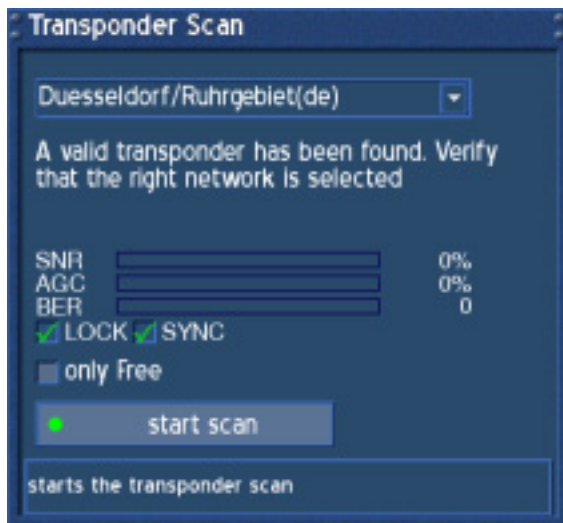
Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Automatic Transponder Scan" and press the **OK-Button**.
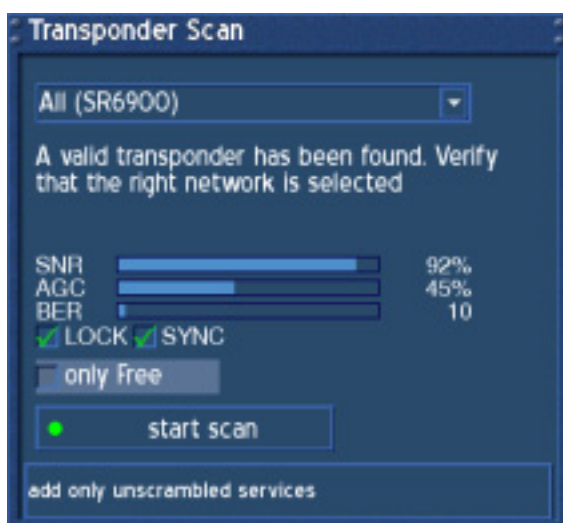
Select your cable provider in the drop down menu and press the **OK-Button**.

You now should see that a valid transponder has been found and the checkboxes in front of "LOCK" and "SYNC" should be checked.
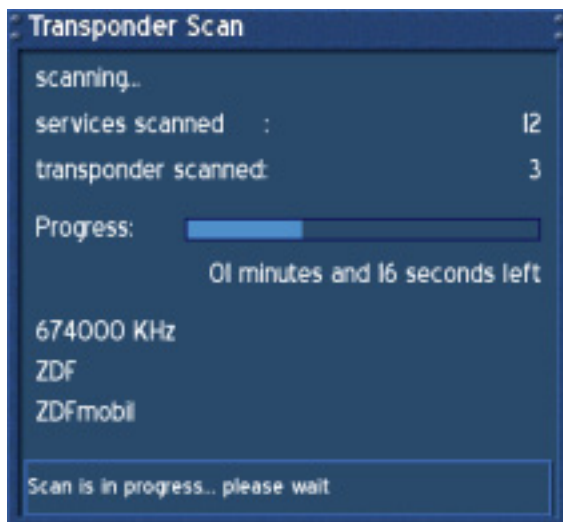
SNR:
Signal to Noise Ratio

AGC:
Automatic Gain Control

BER:
Bit Error Rate (should be equals 0 if possible)

Only free:
If you check the checkbox in front of the "Only free" option, your Dreambox will search on for FTA (non-encrypted) services.
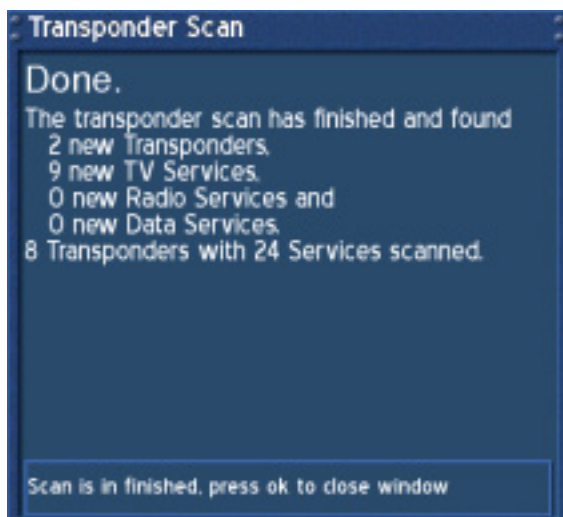
Press the **green Options-Button** to start searching.

After you started searching you will see the progress bar and the estimated remaining time.

Please wait until your Dreambox finished searching for services.

You can always abort the searching by pressing the **Exit-Button** several times.
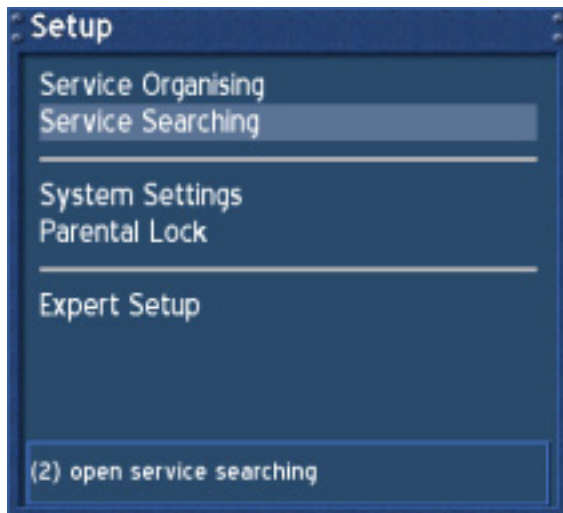
Once your Dreambox is done searching you will see this menu on the right. A brief summary of the search is shown.
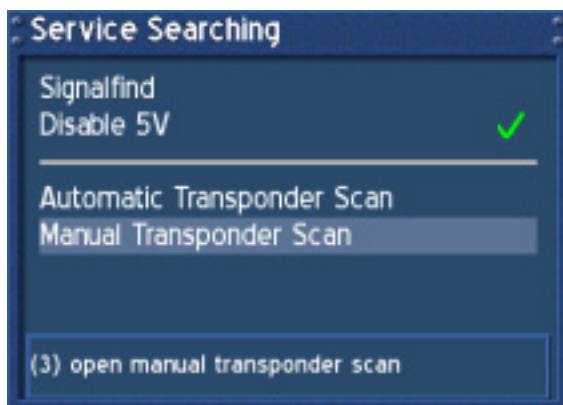
Press the **OK-Button** to close this menu.

21.1   Manual transponder scan (DM 600 PVR-C)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Service Searching" and press the **OK-Button**.

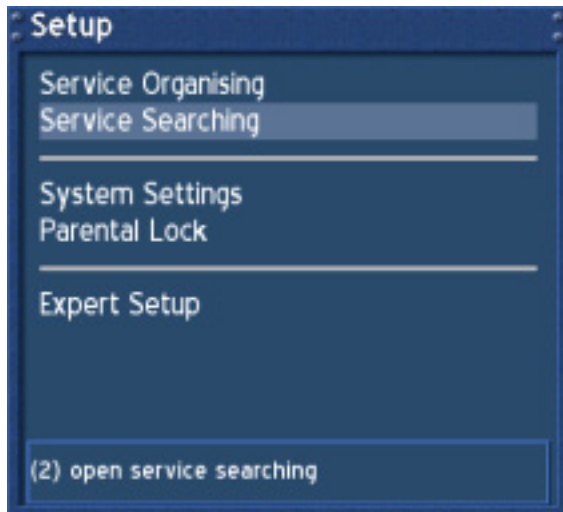Navigate to the option "Manual Transponder Scan" and press the **OK-Button**.
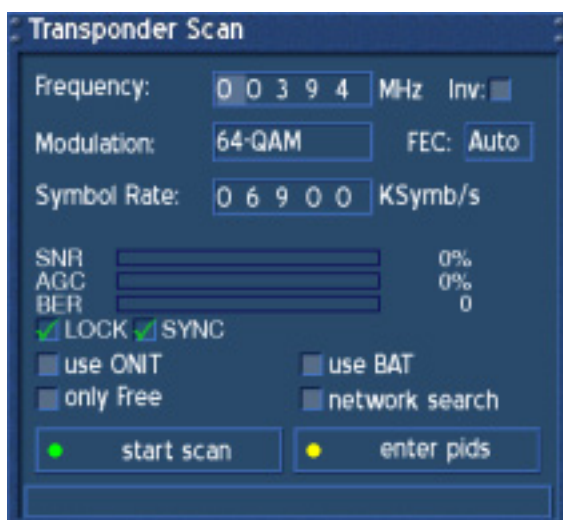
Enter the desired frequency with the **Numeric Keypad** on your remote control.

Use the **Navigation-Buttons** to reach the individual options.

Press the **green Options-Button** to start the scan.

22.   Satfinder (Adjusting your dish, DM 600 PVR-S)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
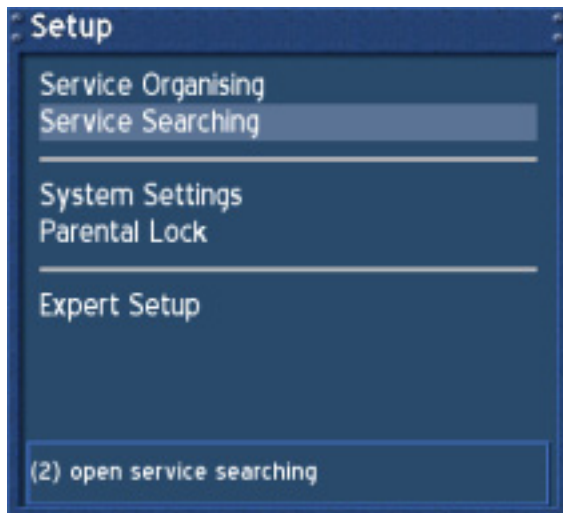
Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Satfind" and press the **OK-Button**.
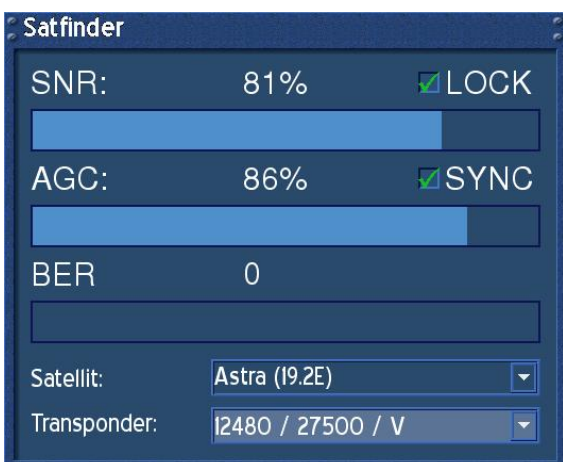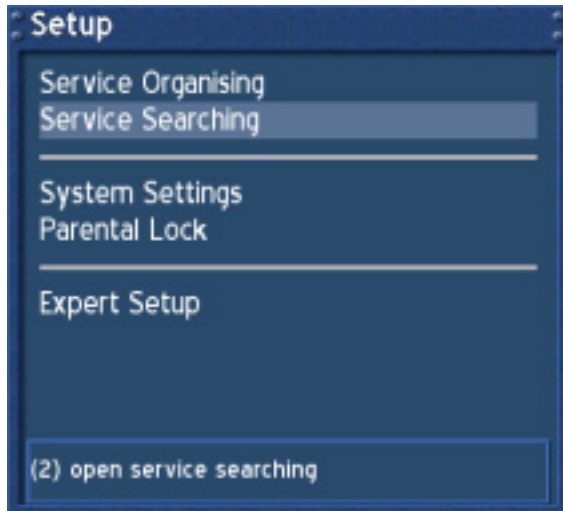
Select the satellite and transponder in the drop down menu and press the **OK-Button**.

Adjust the dish towards the desired satellite until you have a high value on the signal strength AGC and on the signal quality SNR indicator. The BER should always indicate a value of zero if the satellite is locked and synced.

## 23.   Satellite configuration

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
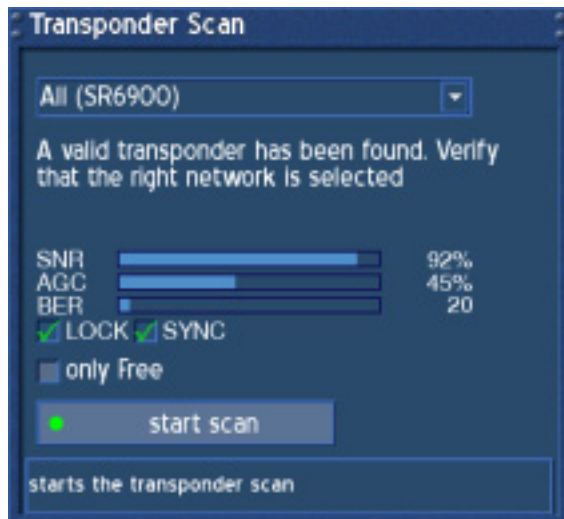
Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Satellite Configuration" and press the **OK-Button**.

23.1   one single satellite – direct connection

Use this type of configuration if you want to receive a single satellite with a Single Universal LNB. The coax cable is directly connected from you Dreambox to the LNB. Please read the section **Satellite configuration** to learn how to get into this menu.
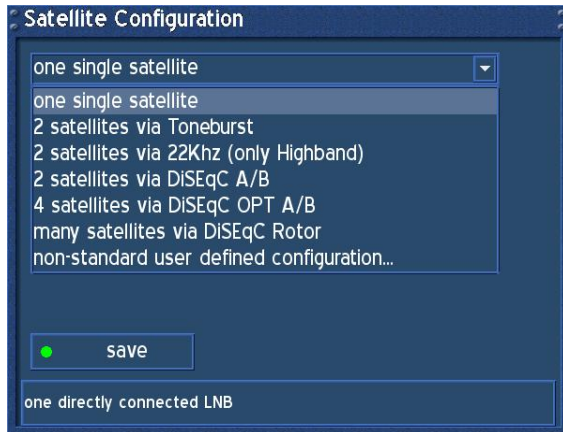
The "Satellite Configuration" menu will open up.

Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "one single satellite" option and press the **OK-Button**.

Choose the drop down menu „*Sat/Position*" and press the **OK-Button**.

A list of all available satellites will show up.

Choose your desired satellite and press the **OK-Button**.
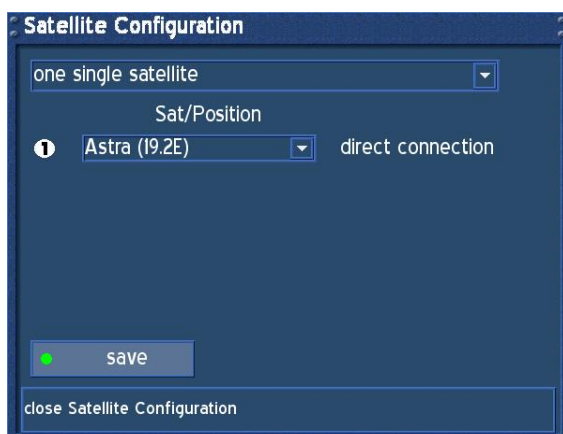
Choose "save" and press the **OK-Button**.

The configuration for "single satellite" is now done.

The menu "Transponder scan" will show up. See sections *Automatic transponder scan* or *Automatic multisat transponder scan* for details.

23.2   2 satellites via Toneburst

Use this type of configuration if you want to receive two satellites from one LNB each. It does not matter if you use one or two dishes to achieve this. Connect the two coax cables form the two LNBs to a so-called Toneburst switch and connect the coax cable from the Toneburst switch to your Dreambox. Please read the section **Satellite configuration** to learn how to get into this menu.

Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "2 satellites via Toneburst" option and press the **OK-Button**.
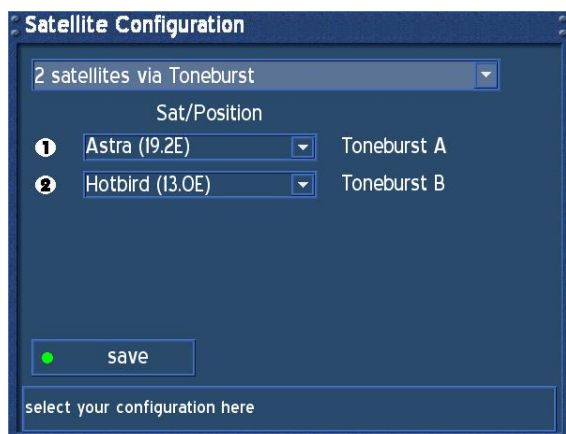
Select your desired satellites as described in the **one single satellite – direct connection** section.

Make sure you know which satellite is connected to which input on the Toneburst switch.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.
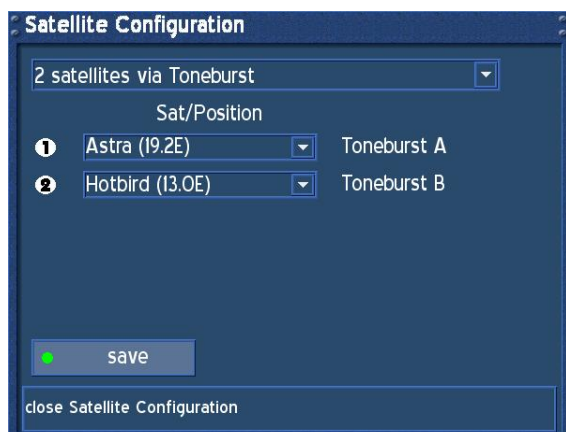
Choose "save" and press the **OK-Button**.

The configuration for "2 satellites via Toneburst" is now done.

The menu "Transponder scan" will show up. See sections *Automatic transponder scan* or *Automatic multisat transponder scan* for details.

23.3   2 satellites via 22KHz (Highband only)

Use this type of configuration if you want to receive two satellites from one LNB each. It does not matter if you use one or two dishes to achieve this. Connect the two coax cables form the two LNBs to a so-called 22kHz switch and connect the coax cable from the Toneburst switch to your Dreambox. Please read the section **Satellite configuration** to learn how to get into this menu.

Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "2 satellites via 22kHz (Highband only)" option and press the **OK-Button**.
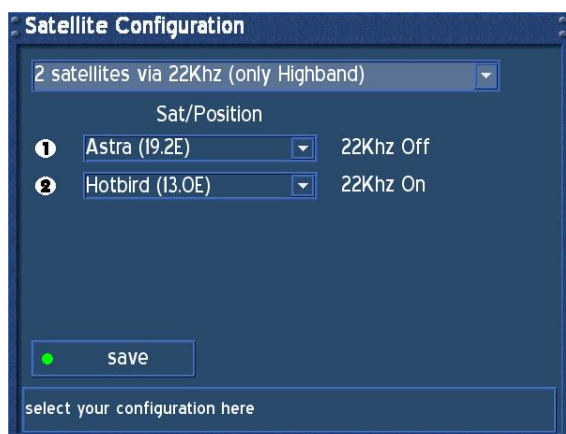
Select your desired satellites as described in the **one single satellite – direct connection** section.

Make sure you know which satellite is connected to which input on the 22kHz switch.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.
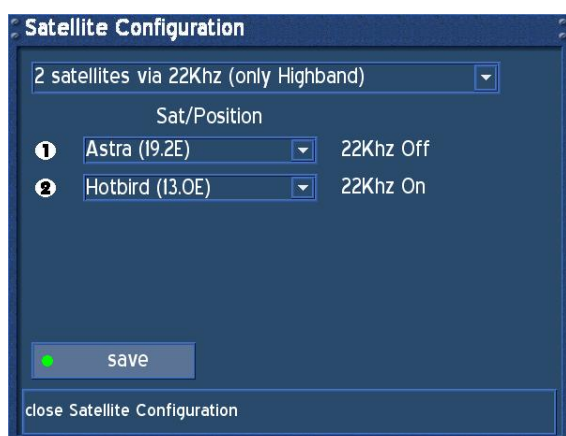
Choose "save" and press the **OK-Button**.

The configuration for "2 satellites via 22kHz (Highband only)" is now done.

The menu "Transponder scan" will show up. See sections *Automatic transponder scan* or *Automatic multisat transponder scan* for details.

23.4   2 satellites via DiSEqC A/B

Use this type of configuration if you want to receive two satellites from one Twin Universal or Quad Universal LNB. It does not matter if you use one or two dishes to achieve this. In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers in your household. Please read the section **Satellite configuration** to learn how to get into this menu.
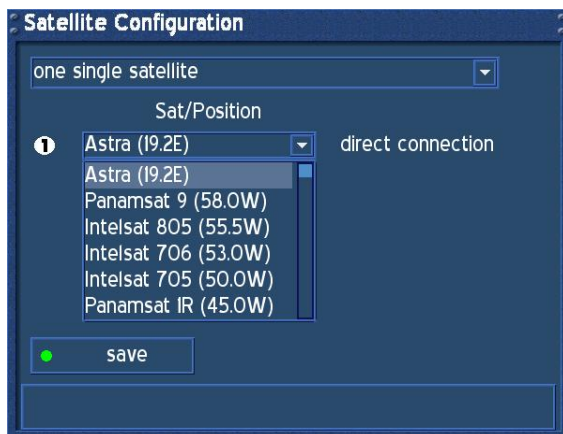
Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "2 satellites via DiSEqC A/B" option and press the **OK-Button**.
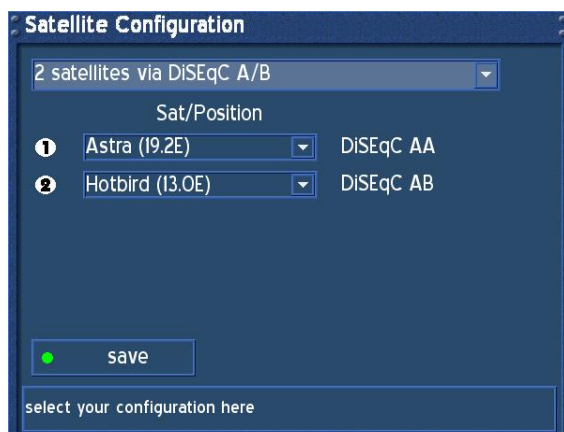
Select your desired satellites as described in the **one single satellite – direct connection** section.

Make sure you know which satellite is connected to which input.

If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.
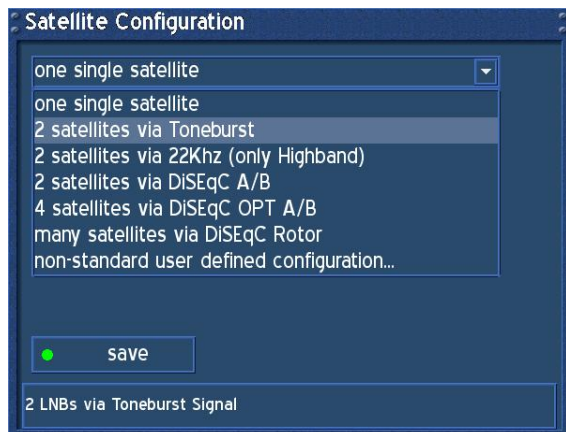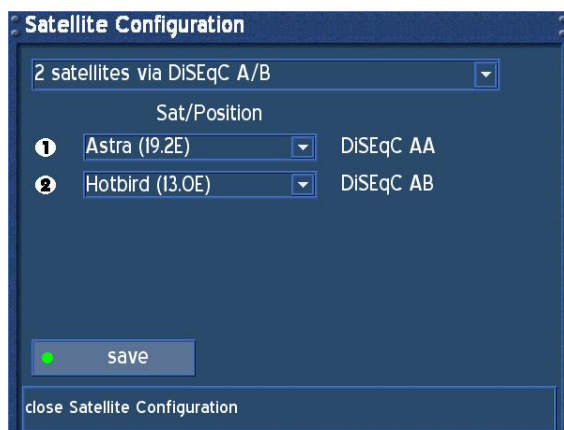
Choose "save" and press the **OK-Button**.

The configuration for "2 satellites via DiSEqC A/B" is now done.

The menu "Transponder scan" will show up. See sections *Automatic transponder scan* or *Automatic multisat transponder scan* for details.

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23.5   4 satellites via DiSEqC OPT A/B

Use this type of configuration if you want to receive four satellites from one Twin Universal or Quad Universal LNB. It does not matter if you use one or two dishes to achieve this. In this case the LNBs are connected to a so-called Multiswitch from which the signal is via coax cabled to the satellite receivers in your household. Please read the section **Satellite configuration** to learn how to get into this menu.
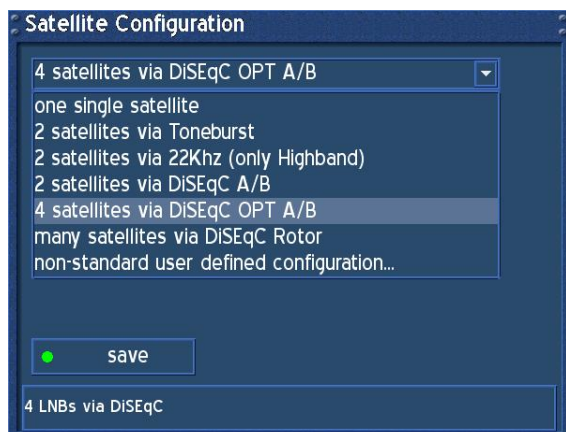
Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "4 satellites via DiSEqC OPT A/B" option and press the **OK-Button**.
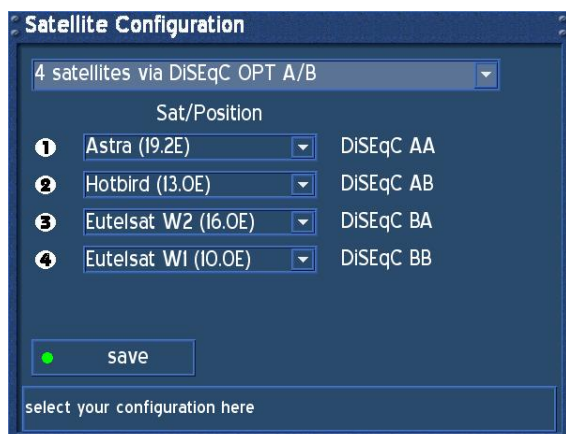
Select your desired satellites as described in the **one single satellite – direct connection** section.

Make sure you know which satellite is connected to which input.

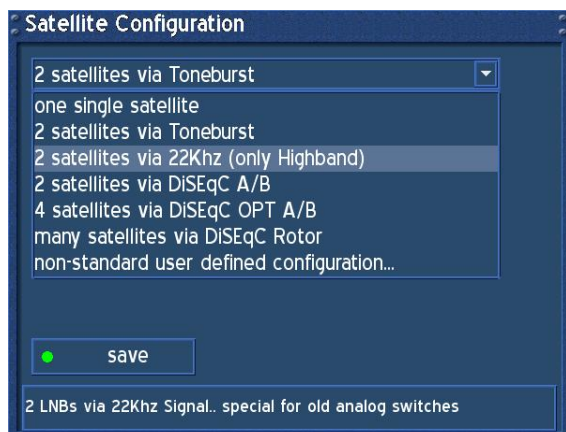If you do not find any services in the transponder scan later, exchange the two satellites in this list and try again.

Choose "save" and press the **OK-Button**.

The configuration for "4 satellites via DiSEqC OPT A/B" is now done.

The menu "Transponder scan" will show up. See sections *Automatic transponder scan* or *Automatic multisat transponder scan* for details.

23.6 Many satellites via DiSEqC Rotor

Use this type of configuration if you want to receive many satellites with a DiSEqC 1.2 Rotor or Stab from a Single Universal LNB. The coax cable is directly connected from you Dreambox to the LNB. Please read the section **Satellite configuration** to learn how to get into this menu.
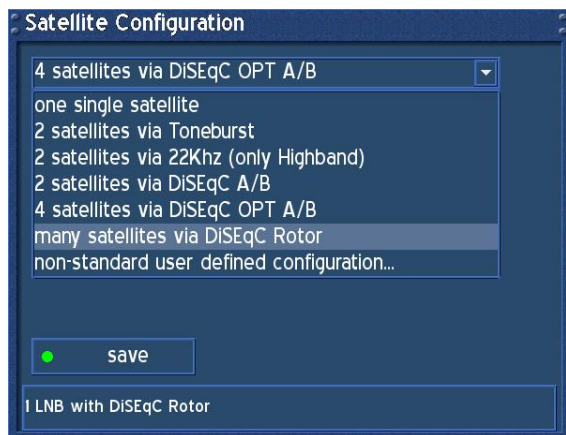
Choose the upper drop down menu and press the **OK-Button**.

A list of all possible configurations will show up.

Select the "Many satellites via DiSEqC Rotor" option and press the **OK-Button**.
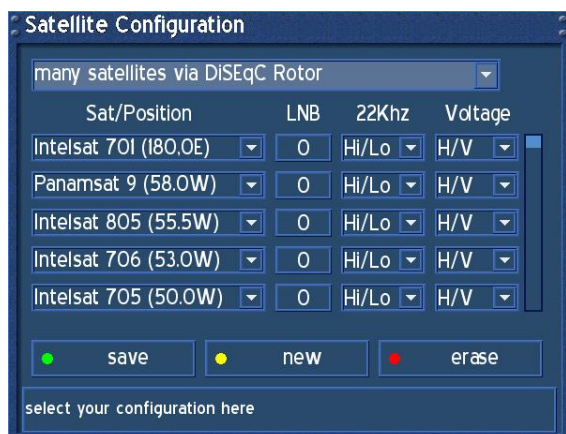
Edit the list of the satellites you can and want to receive. The order does not matter in this case. The number of satellites you can receive varies depending on your Rotor or Stab.

Press the **green Options-Button** to save your settings. You will be taken back to the service searching menu.

Hint:
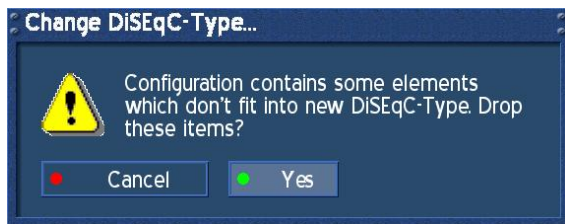
If you do not want to change the satellite position list before hand, just select the option "Single satellite – direct connection" and choose "Yes" in case you are prompted the message on the left.

.
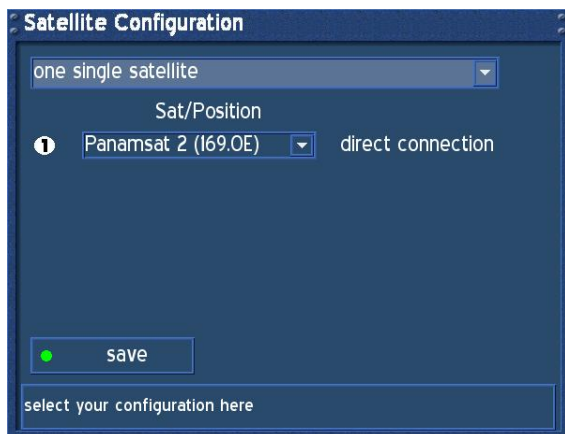
You will now see the configuration menu depicted on the right.

Choose "Non standard – user defined configuration" in the upper drop down menu. Press the **OK-Button**.
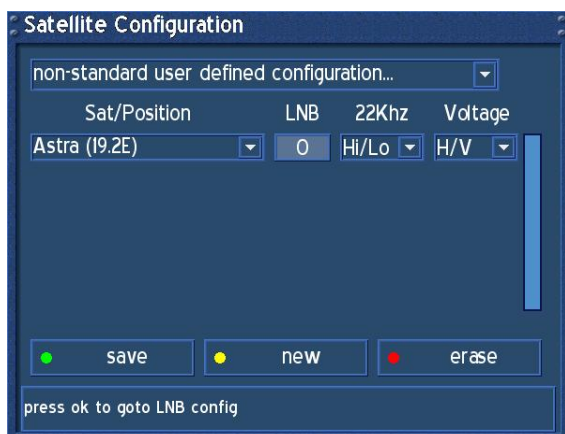
For now you will only see one satellite in the list. Please select LNB 0 and press the **OK-Button**.

Astra 19.2° Ost is preset for your convenience.
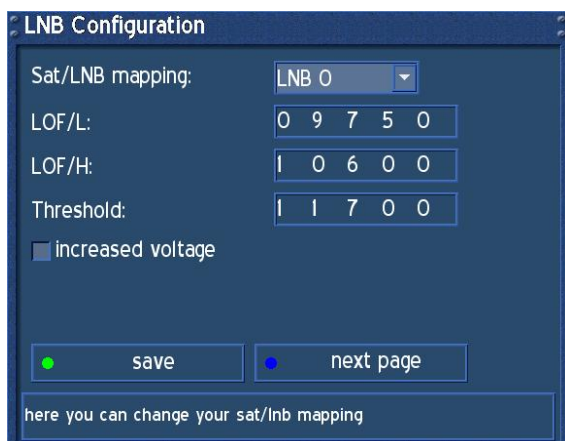
The sub menu "LNB configuration" will show up.

Please change nothing here for now. Except in cause your coax cable to the LNB has a too high damping value you can check the checkbox in front of "Higher voltage". Usually this is not necessary..

Now please press the **blue Options-Button** to get to the next sub menu.
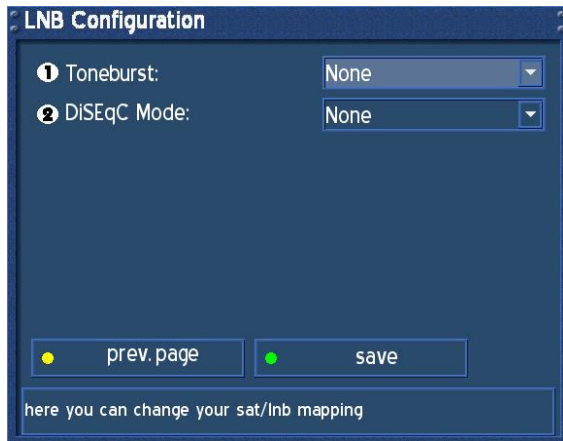
As you can see, the „*DiSEqC - Mode*" is not set yet.

Please leave the "Toneburst" mode as it is.
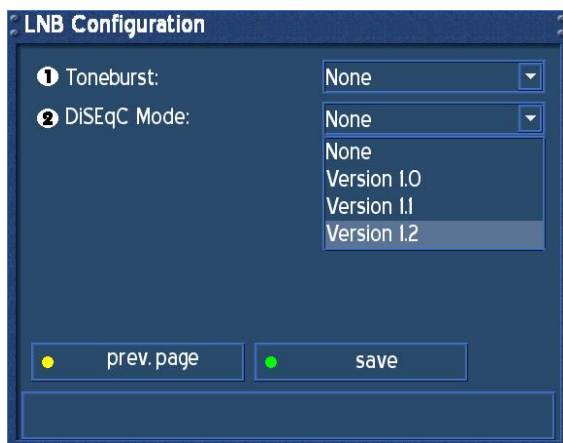
Press the number "**2**" on your **Numeric Keypad** and select the "DiSEqC – Mode" Version 1.2.

To save the settings press the **OK-Button**.
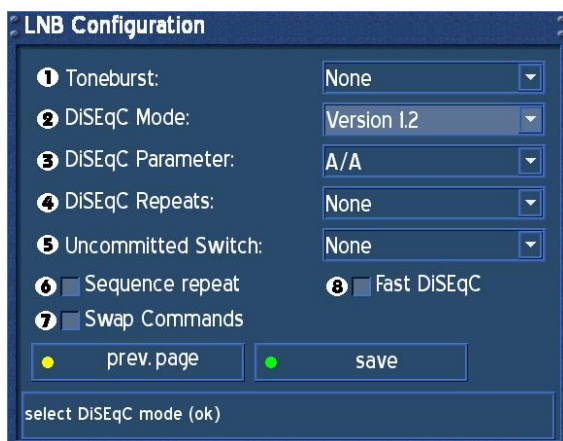
The menu will change and reveal additional options now.
There is no need to change anything here.

Press the **green Options-Button** to save the settings.

You are taken back to the "Satellite configuration" menu.
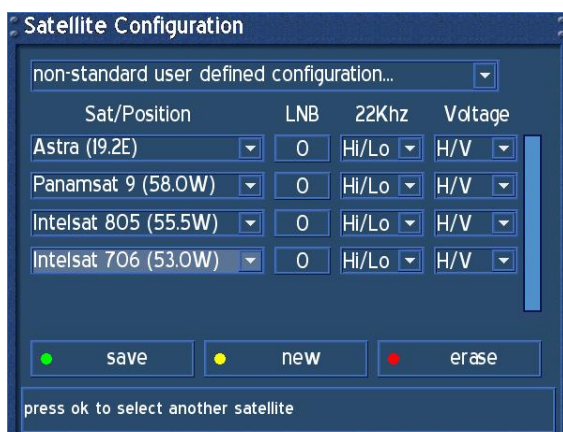
You can now use the **yellow Options-Button** to add more satellites.

Once you are done press the **green Options-Button** to save your settings.

You are now taken back to the "Transponder scan" menu.

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24. Motor Setup

Use this type of configuration if you want to receive many satellites with a Rotor or Stab from a Single Universal LNB. The coax cable is directly connected from you Dreambox to the LNB. Please read the section **Satellite configuration** to learn how to get into this menu.

Choose the drop down menu „*Motor Setup*" and press the **OK-Button**.
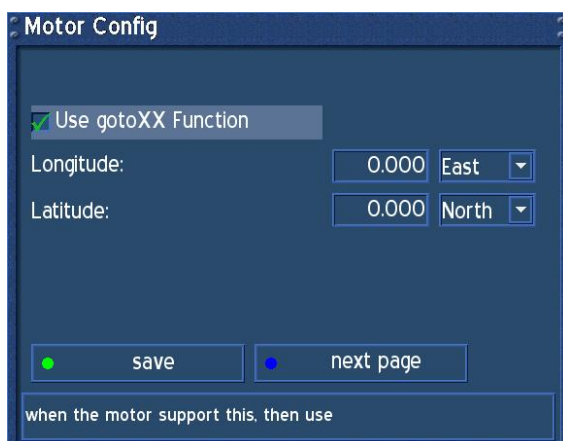
Refer to the Rotors Manual for correct values degrees/second.

Visit the Website http://www.heavens-above.com to figure out your geographical location. Enter the values for Longitude and Latitude and press the **green Option-Button** to save you settings.
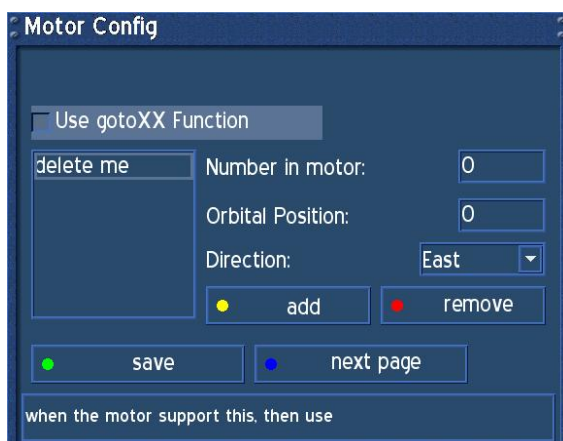
Remove the check from the checkbox in front of "Use gotoXX function" to use a DiSEqC 1.2 Rotor like the SG2100 Rotor without USALS support.

As you can see on the left, a new menu with new options will appear.
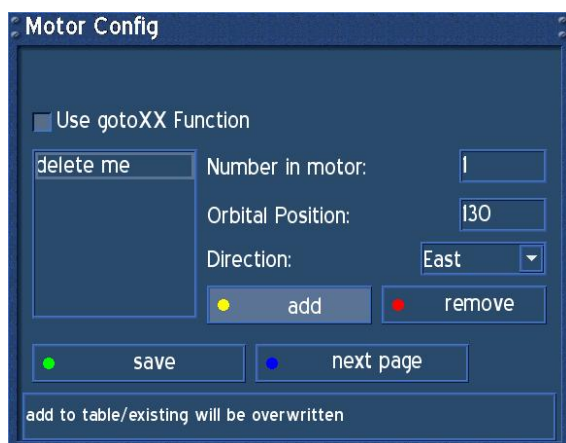
Take the list of preset satellite positions of your rotor, which can usually be found in the rotor's manual and add each satellite that you want to receive in the list in the left.

i.e.: Number 1 in the rotor is Hotbird 13° Ost

You will have to enter a 1 in the "Number in rotor" field and a 130 in the "Orbital position" field.

For a better understanding please take a look at the **Example table for the DiSEqC 1.2 Rotor (SG2100)**. It is borrowed fomr the original manual.

Press the **yellow Options-Button** to add the satellite to your list.
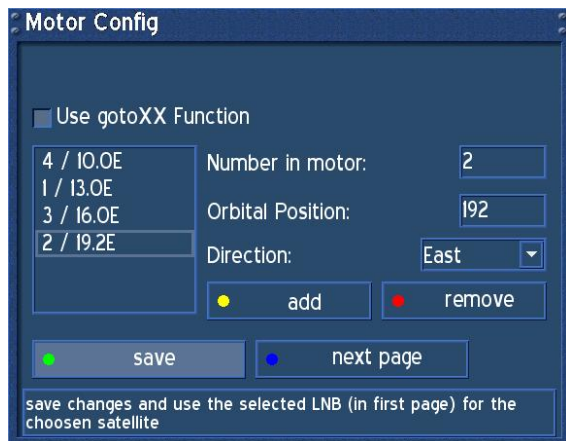
An example table of 4 satellites is depicted on the left.
Attention: You can later on only scan for services on satellites that you have entered in this list.

Press the **green Options-Button** to save your settings.

The menu "Transponder scan" will show up. See sections **Automatic transponder scan** or **Automatic multisat transponder scan** for details.

25.   Example table for the DiSEqC 1.2 Rotor (SG2100)

| Nummer in Rotor	Satellitenname	Position	Wert für Orbital Position Dreambox	Nummer in Rotor	Satellitenname	Position	Wert für Orbital Position Dreambox
1	Hotbird	13° O	130 O	14	Hispasat	30° W	300 W
2	Astra	19.2° O	192 O	15	Telstar 11	37.5° W	375 W
3	Eutelsat W2	16° O	160 O	16	Kopernikus	23.5° O	235 O
4	Eutelsat W1	10° O	100 O	17	Arabsat 2A3A	26° O	260 O
5	Eutelsat W3	7° O	70 O	18	Astra 2	28.2° O	282 O
6	Sirius 2/3	5° O	50 O	19	Eurobird	28.5° O	285 O
7	Thor 2/3	0.8° W	8 W	20	Arabsat 2B	30.5° O	305 O
8	Intelsat 707	1° W	10 W	21	Türksat 1B	31.3° O	313 O
9	Telekom 2C	5° W	50 W	22	Türksat 1C	42° O	420 O
10	Telekom 2D	8° W	80 W	23	Intelsat 601	34.5° W	345 W
11	Intelsat 705	18° W	180 W	24	Pas 3R	43° W	430 W
12	NSS 803	21.5° W	215 W	25	Amos	4° W	40 W
13	Intelsat 605	27.5° W	275 W	26	Nilsat	7° W	70 W

O = East, W = West (this table is not up to date, it is only for explanation)

26.   Automatic transponder scan (DM 600 PVR-S)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Automatic Transponder Scan" and press the **OK-Button**.

This option is primarily used for only scanning a single satellite in your list.

Please select the option "Automatic Multisat Scan" if you want to scan for services on all set satellites at once. See section **Automatic Multisat Scan** for details.
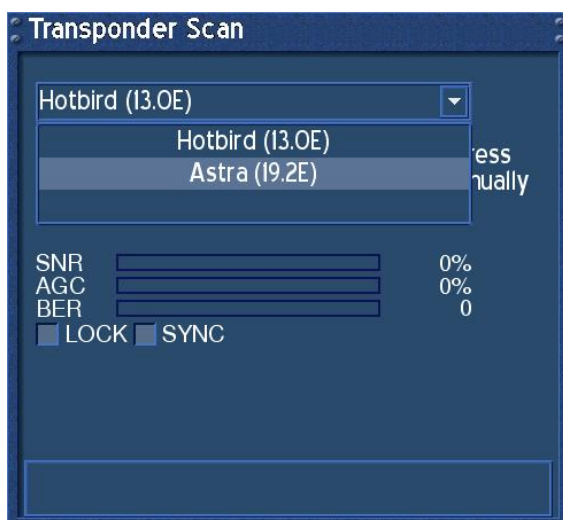
Select one of the two satellites in the drop down menu and press the **OK-Button**.
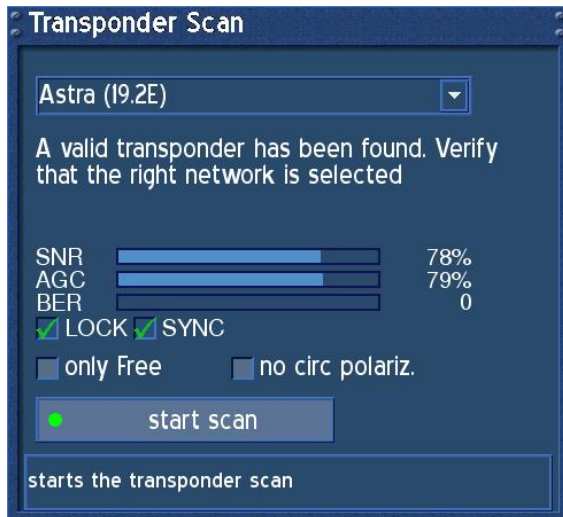
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You now should see that a valid transponder has been found and the checkboxes in front of "LOCK" and "SYNC" should be checked.

SNR:
Signal to Noise Ratio

AGC:
Automatic Gain Control

BER:
Bit Error Rate (should be equals 0 if possible)

only Free:
If you check the checkbox in front of the "only Free" option, your Dreambox will search on for FTA (non-encrypted) services.
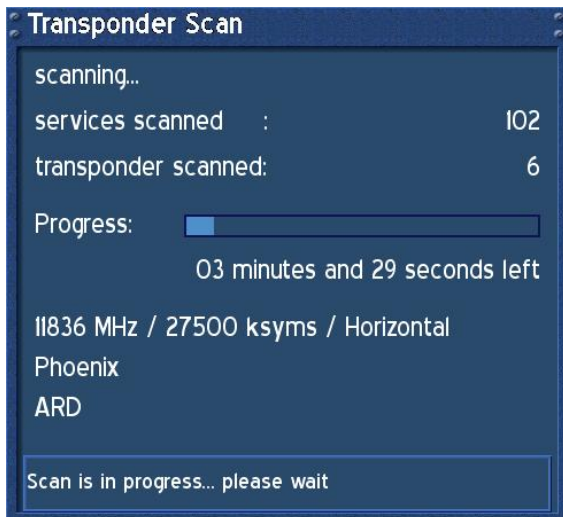
No circular polarization:
If you scan anything other than a C-Band satellite please check the checkbox.

Press the **green Options-Button** to start searching.

After you started searching you will see the progress bar and the estimated remaining time.

Please wait until your Dreambox finished searching for services.

You can always abort the searching by pressing the **Exit-Button** several times.
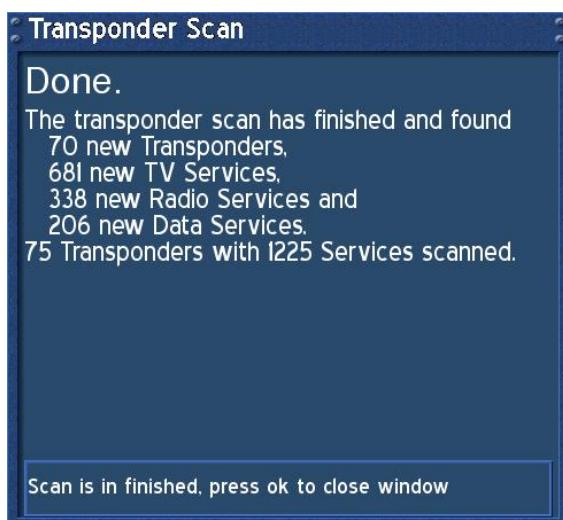
Once your Dreambox is done searching you will see this menu on the right. A brief summary of the search is shown.

Press the **OK-Button** to close this menu.
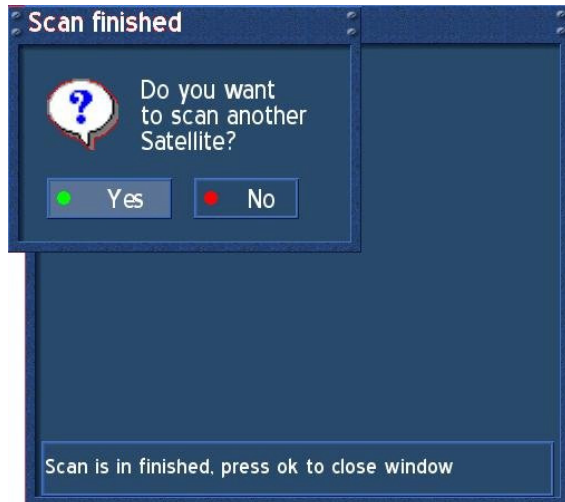
You will now be prompted if you want to scan another satellite. Press the **green Options-Button** if that is the case and you have setup another satellite in the satellite list.

Press the **red Options-Button** to end the scan.

You are taken back to the "Service searching" menu.

27.   Automatic multisat scan (DM 600 PVR-S)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Automatic Multisat Scan" and press the **OK-Button**.

This option will scan all satellites in your satellite list without asking you if you want to scan any other satellites.

The transponder scan menu for a multisat scan will pop up.

Pressing the **OK-Button** will change the scan option of the selected satellite.

The options "nothing" means that the satellite is not scanned for any transponders.

Transponder Scan

Hotbird (13.OE)	[nothing]
Astra (19.2E)	[all]

● start scan

press ok to change

Pressing the **OK-Button** will toggle between the available scan options.

Setting the multisat scan option to "all" will scan for all available services no matter if they are free or encrypted.
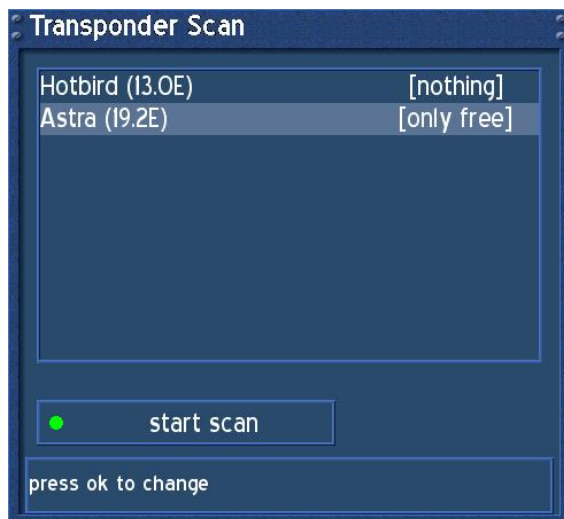
Transponder Scan

Hotbird (13.OE)	[nothing]
Astra (19.2E)	[only free]

● start scan

press ok to change

Pressing the **OK-Button** will toggle between the available scan options.

Setting the multisat scan option to "only free" will scan for all available services that are not encrypted.

Transponder Scan

Hotbird (13.OE)	[all]
Astra (19.2E)	[all]
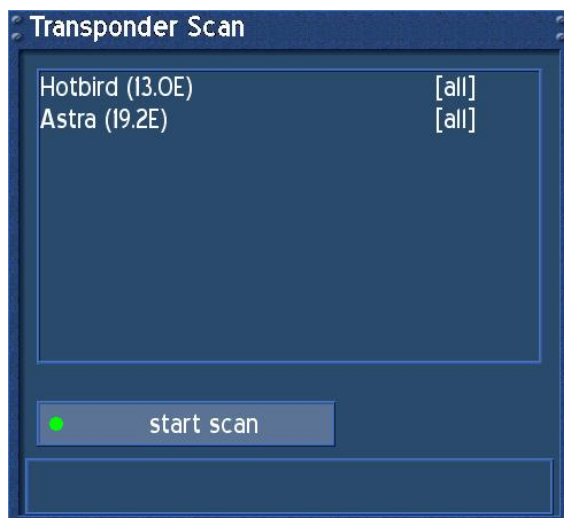
● start scan

Pressing the **OK-Button** will toggle between the available scan options.

Usually the "all" option is the best choice.

Press the **green Options-Button** to start the scan.

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Transponder Scan

scanning Hotbird (13.0E)   (1/2)

services scanned   :   947

transponder scanned: 73

Progress:

02 minutes and 21 seconds left

12341 MHz / 27500 ksyms / Vertical
IEPG Data
SkyItalia

Scan is in progress... please wait
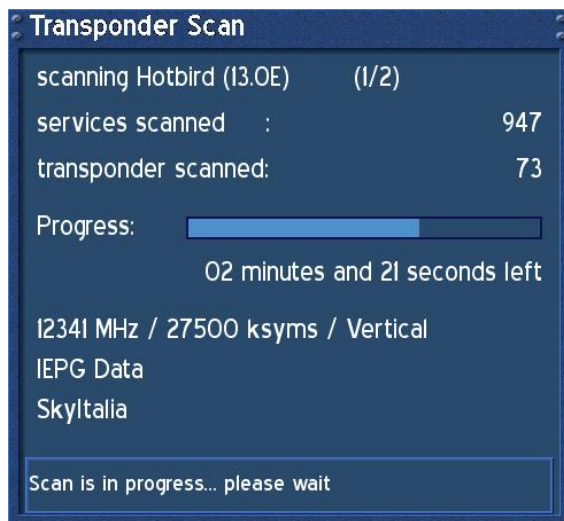
The menu for the first scanned satellite is depicted on the left.

Transponder Scan

scanning Astra (19.2E)   (2/2)

services scanned   :   946

transponder scanned: 55

Progress:

01 minutes and 10 seconds left

10773 MHz / 22000 ksyms / Horizontal
INT_1107
SES ASTRA

Scan is in progress... please wait
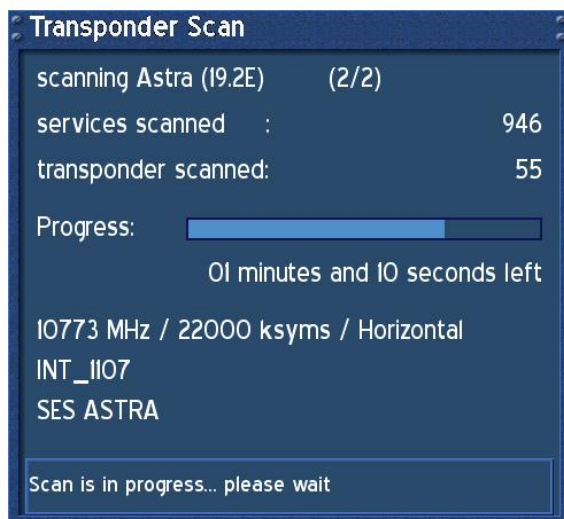
The menu for the second scanned satellite is depicted on the left.
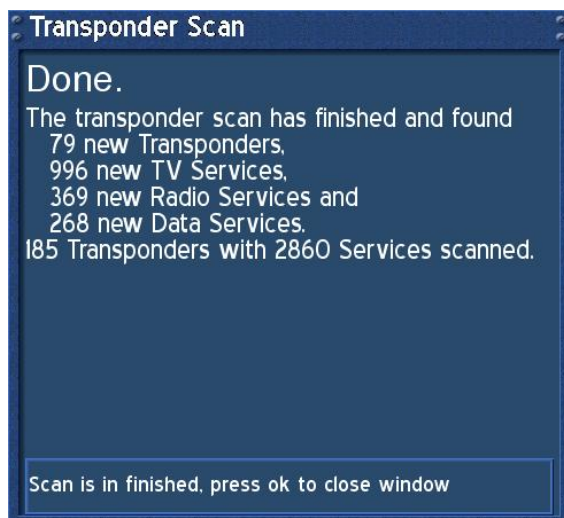
Transponder Scan

Done.
The transponder scan has finished and found
    79 new Transponders,
    996 new TV Services,
    369 new Radio Services and
    268 new Data Services.
185 Transponders with 2860 Services scanned.

Scan is in finished, press ok to close window

Once your Dreambox is done searching you will see this menu on the right. A brief summary of the search is shown.

Press the **OK-Button** to close this menu.

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Scan finished

Do you want
to scan another
Satellite?

Yes   No

Scan is in finished, press ok to close window
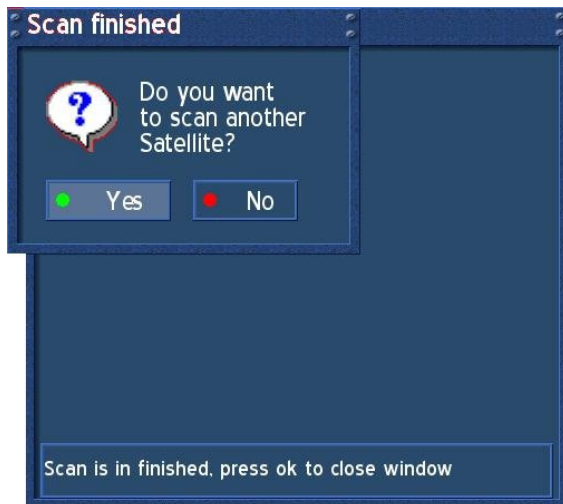
The System will now ask you, if you want to scan
any other transponders.

Press the **red Options-Button** to quit the
transponder scan.

You are taken back to the "Service searching" menu.

28.   Manual transponder scan (DM 600 PVR-S)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
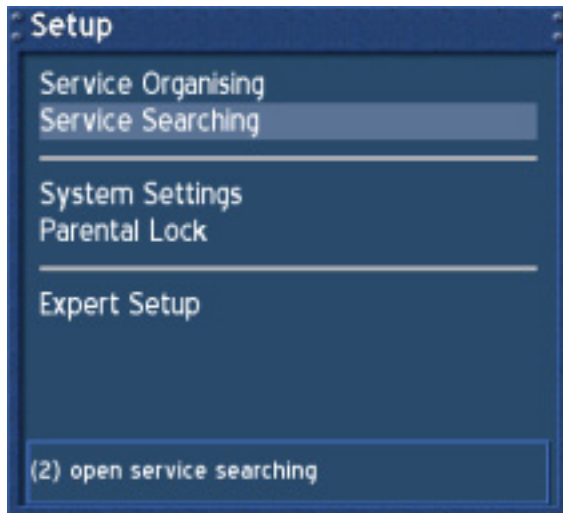
Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Manual Transponder Scan" and press the **OK-Button**.
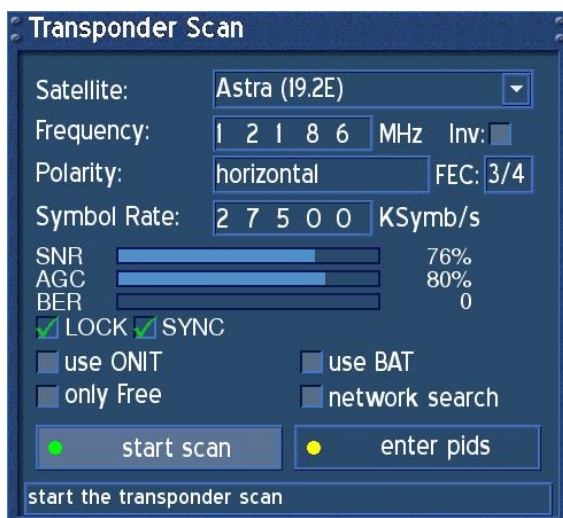
First choose the satellite you want to scan on with the **OK-Button**.

Enter the transponder frequency with the **Numeric Keypad** on your remote control.

Use the **Navigation-Buttons left** and **right** to switch between horizontal and vertical polarization and to change the FEC.

Enter the symbol rate with the **Numeric Keypad** on your remote control.

Press the **green Options-Button** to start the scan.

29.   Edit a transponder (DM 600 PVR-S)

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Service Searching" and press the **OK-Button**.

Navigate to the option "Transponder Edit" and press the **OK-Button**.

This menu will let you edit the satellite and transponder lists that are used for the service scan. New transponders and satellites are usually announced in the Internet or in magazines.

Press the **red Options-Button** to delete a satellite.

Press the **green Options-Button** to add a satellite.

Press the **OK-Button** to edit a satellite entry.
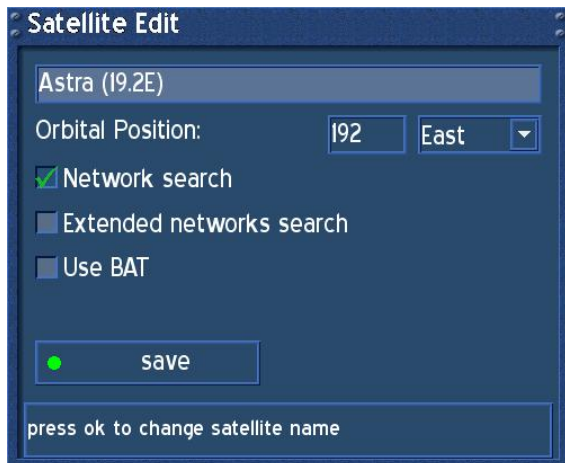
Follow the instructions in this menu. Press the **Navigation-Buttons** to reach the desired option and use the **OK-Button** to change them.

Network search:
The NIT holds the Information about the Satellites and the TV/Radio- Programs.
(NIT = Network Information Table)

Extended network search:
Set a check to scan the NIT from other Transponders.

Use BAT:
Bouquet Tables of the Provider will be used, if available.
(BAT = Bouquet Association Table)

Press the **green Options-Button** to save your settings.

You are taken back to the "Transponder" menu.

Navigate to the option "add" and press the **OK-Button**.

Through this menu you can a transponder to a satellite.

Using the Numeric Keypad of your remote control enter the transponder frequency and symbol rate.

Press the **green Options-Button** to save your settings.
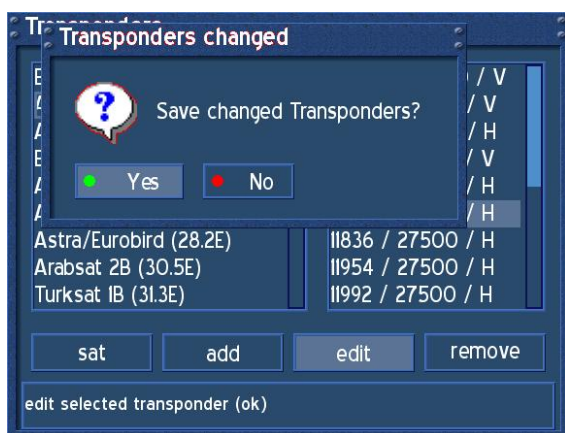
After you have made your changes to the transponder and satellite list, press the **Exit-Button** to leave the menu. You will be prompted if you want to save your changes.

Press the **green Options-Button** to save your changes.

Press the **red Options-Button** to discard your changes.

You are taken back to the "Transponder scan" menu. Start the transponder scan to find services on newly added satellites or transponders.

30.   Service organizing – Adding a new Bouquet

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
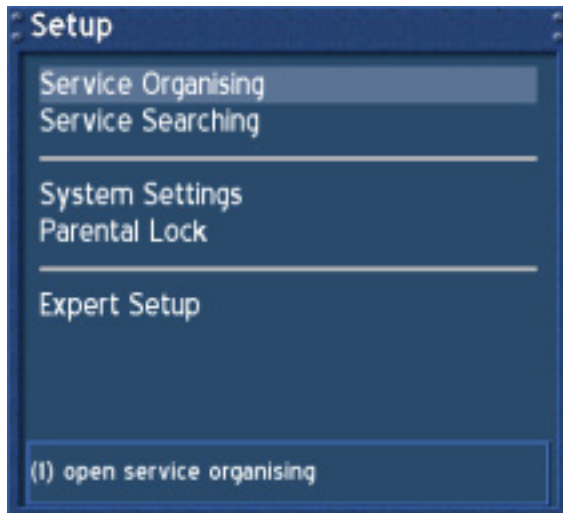
Navigate to the option "Service Organizing" and press the **OK-Button**.
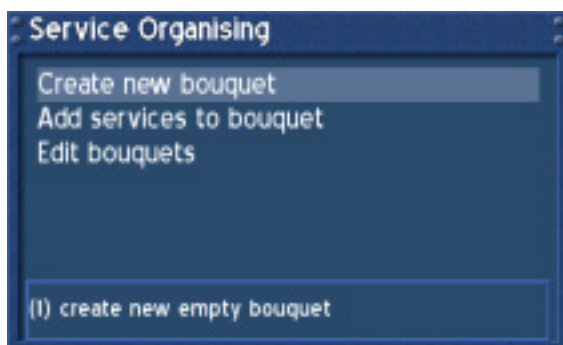
Navigate to the option "Create new bouquet" and press the **OK-Button**.
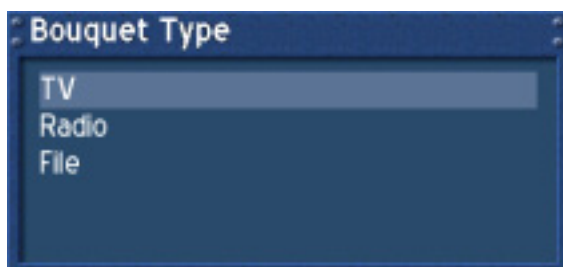
You are asked for the type of Bouquet you want to add.

In our example we add a TV Bouquet.

Press the **OK-Button**.

Using the **Numeric Keypad** on your remote control and pressing the numbers several times will let you choose the desired letters and numbers.

Pressing the **yellow Options-Button** will toggle between capital and small letters.

Pressing the **blue Options-Button** toggles between numeric and regular mode.

Pressing the **green Options-Button** adds a space.

Pressing the **red Options-Button** will act as a backspace.

Pressing the **OK-Button** will take you back to the "Service organizing" screen.

30.1   Service organizing – Adding services to an existing Bouquet

Please read the section **Service organizing – Adding a new Bouquet** to learn how to get into this menu.
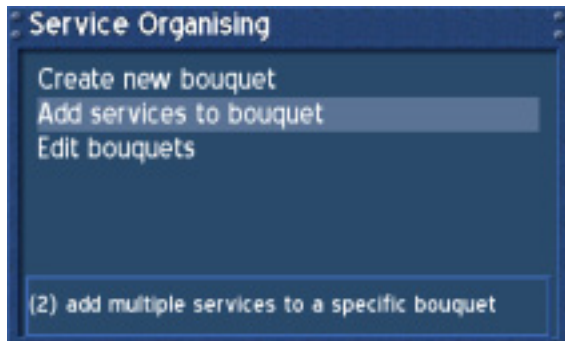
Navigate to the option "Add services to bouquet" and press the **OK-Button**.
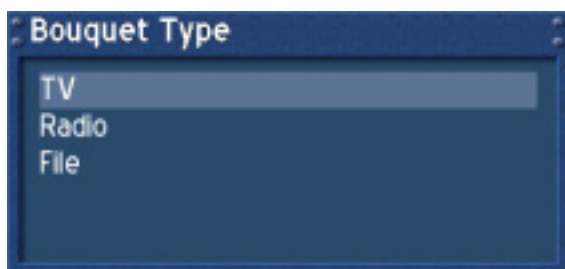
You are asked for the type of Bouquet you want to add.

In our example we add a TV Bouquet.

Press the **OK-Button**.

You are asked in which Bouquet to place the service.

We will use our freshly created "my new bouquet" in this example.

Press the **OK-Button**.

You can now choose whether to take a service from the provider list or service list or the new services list.

Note: All services that were not found in your services list when you did an automatic transponder scan will be saved in the new services list.

We will use the provider list in our example.

Press the **OK-Button**.

The provider list will show up. In our example we will choose the provider "ARD".

Press the **OK-Button**.

You now see the services that are provided by "ARD".

In our example we mark the service "Phoenix" by pressing the **OK-Button**.

You can choose more than one service by selecting them and pressing the **OK-Button**. They will be highlighted in red text if selected.

Pressing the **Exit-Button** will quit your selection.

You are taken back to the "Service organizing" menu.

30.2 Service organizing – Editing a Bouquet

Please read the section **Service organizing – Adding a new Bouquet** to learn how to get into this menu.
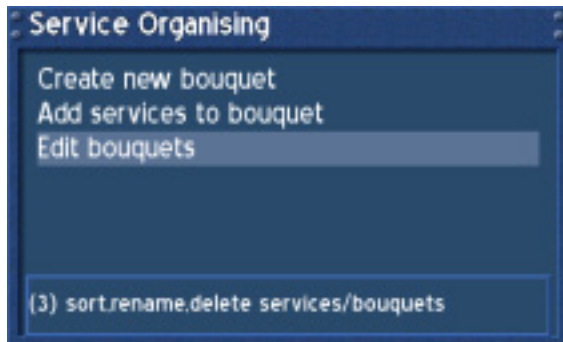
Navigate to the option "Edit bouquets" and press the **OK-Button**.
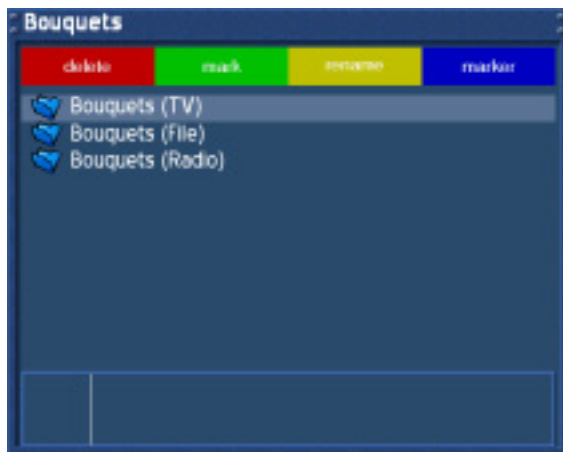
In our example we will edit a TV Bouquet.

Press the **OK-Button** to edit the TV Bouquets.

In our example we will edit our freshly created "my own bouquet" Bouquet.

Select it and press the **OK-Button**.

Pressing the **red Options-Button** will delete the service from the Bouquet.

Attention: This will happen without question if you really want to do it!

Pressing the **green Options-Button** will pick up the selected service and enable you to move its position in the Bouquet. Pressing the **green Options-Button** again will release the service.

Pressing the **yellow Options-Buttons** will let you rename the selected service. See section **Service organizing – Adding a new Bouquet** for details.

Pressing the **blue Options-Button** will add a marker than you can name whatever you want it to be named. See section **Service organizing – Adding a new Bouquet** for details. This allows you to divide your Bouquet list into several sections.

The above describes procedures also apply for Radio and File Bouquets.

31.   Parental lock and Setup lock

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.

Navigate to the option "Parental lock" and press the **OK-Button**.
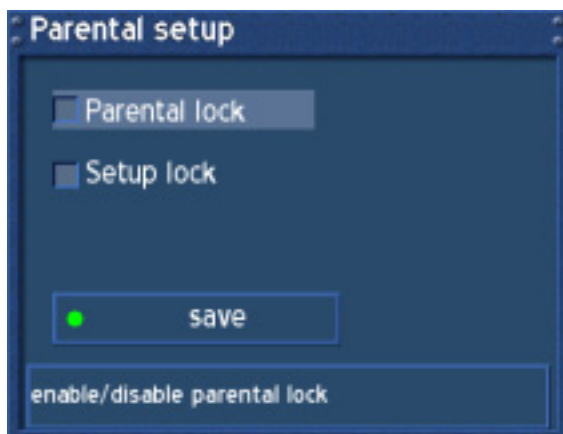
You can activate the parental and setup lock in this menu. It prevents anyone else from having unauthorized access to certain services, videos and MP3s. It also offers the possibility to only make certain services available to your kids.

These protection mechanisms are controlled by a four digit PIN that only is know to you.

Attention:
If you loose your PIN you will have to reset your Dreambox to the factory defaults in order to deactivate any locks.

31.1   Activating the parental lock

Please read the section **Parental lock and Setup lock** to learn how to get into this menu.
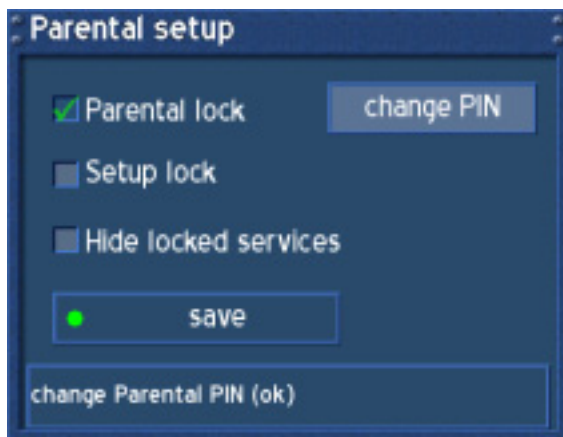
Check the checkbox in front of "Parental lock" by pressing the **OK-Button**.

The Option "Change PIN" will appear.

Navigate to the option "Change PIN" and press the **OK-Button**.

You also choose to hide all locked services form the service list by checking the checkbox in front of the "Hide locked services" option.

Enter a four digit PIN with the **Numeric Keypad** on your remote control.

Attention:
Entering "0000" as your PIN will deactivate any locks. Please choose a PIN that differs from "0000".

Re-enter you PIN to make sure you entered the right one.

If everything went right you will be prompted that your PIN has been changed.
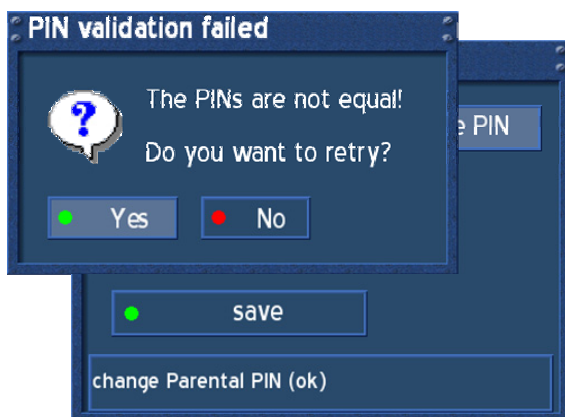
Press the **OK-Button**.

If the PIN you entered twice are not the same you will be prompted this error message.

Pressing the **green Options-Button** will let you re-enter your PIN and try again.

Pressing the **red Options-Button** will abort.

Press the **green Options-Button** to save your settings.

You will be taken back to the "Setup" menu.

31.2   Deactivating the parental lock

Please read the section **Parental lock and Setup lock** to learn how to get into this menu.

Uncheck the checkbox in front of "Parental lock" by pressing the **OK-Button**. You will be prompted for your current PIN.

Enter your PIN to deactivate the parental lock.
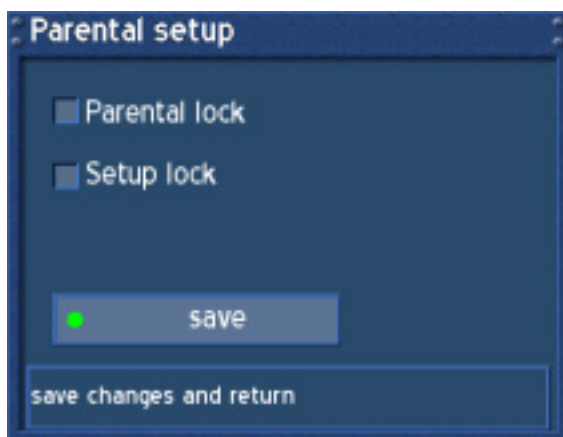
The check in front of "Parental lock" is now gone.

Press the **green Options-Button** to save your settings.

You will be taken back to the "Setup" menu.

31.3   Activating the setup lock

Please read the section **Parental lock and Setup lock** to learn how to get into this menu.
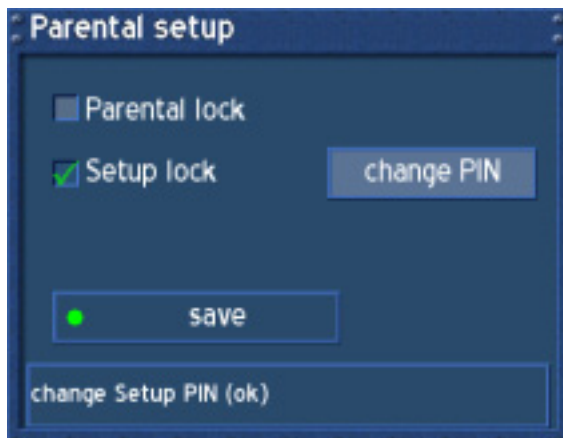
Check the checkbox in front of "Setup lock" by pressing the **OK-Button**.

The Option "Change PIN" will appear.

Navigate to the option "Change PIN" and press the **OK-Button**.

Enter a four digit PIN with the **Numeric Keypad** on your remote control.

Attention:
Entering "0000" as your PIN will deactivate any locks. Please choose a PIN that differs from "0000".

Re-enter you PIN to make sure you entered the right one.

If everything went right you will be prompted that your PIN has been changed.
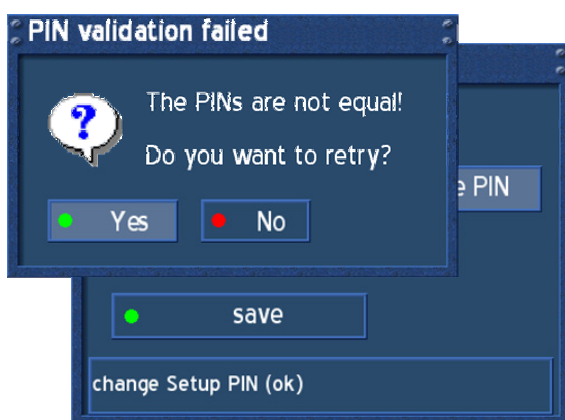
Press the **OK-Button**.

If the PIN you entered twice are not the same you will be prompted this error message.

Pressing the **green Options-Button** will let you re-enter your PIN and try again.

Pressing the **red Options-Button** will abort.

Press the **green Options-Button** to save your settings.

You will be taken back to the "Setup" menu.

31.4   Deactivating the setup lock

Please read the section **Parental lock and Setup lock** to learn how to get into this menu.
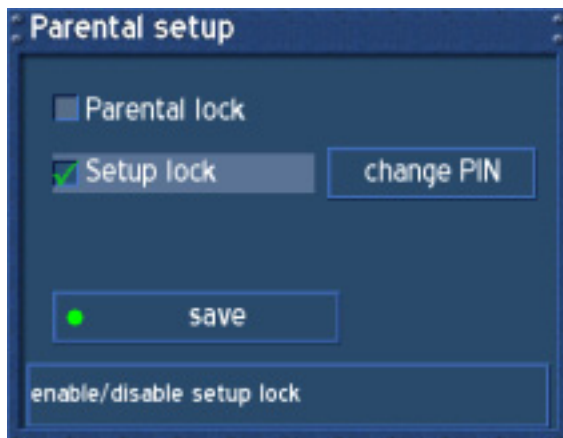
Uncheck the checkbox in front of "Setup lock" by pressing the **OK-Button**. You will be prompted for your current PIN.

Enter your PIN to deactivate the setup lock.
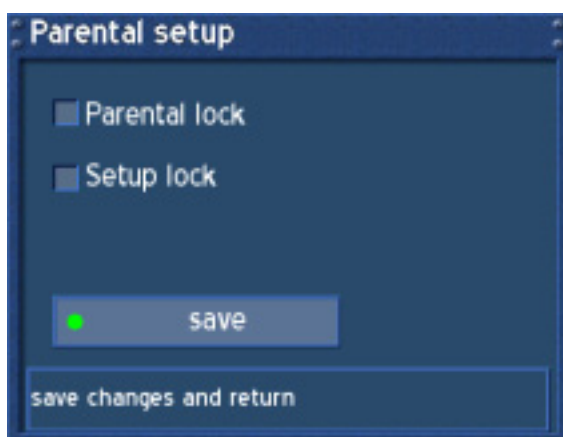
The check in front of "Setup lock" is now gone.

Press the **green Options-Button** to save your settings.

You will be taken back to the "Setup" menu.

32.   Locking a service

Please read the section **Parental lock and Setup lock** to learn how activate the parental lock.

Press the **OK-Button** to open the service list.

Navigate to the service you want to lock and press the **Menu-Button**.

You can lock any entry of your choice in the service list. (**All services**, **Satellites**, **Providers** and **Bouquets**)
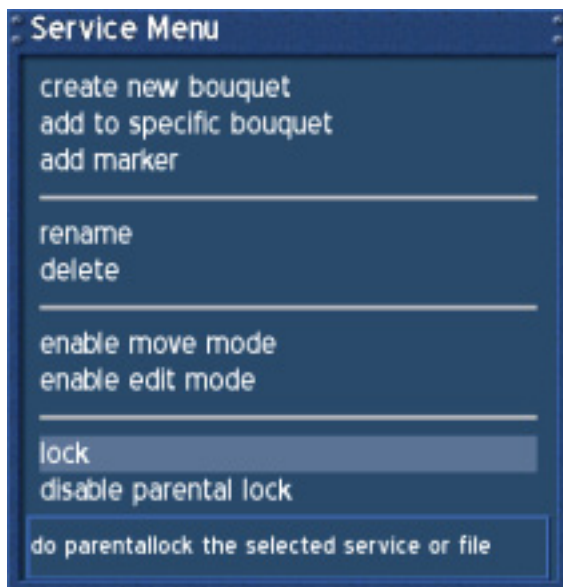
Navigate to the option "Lock" and press the **OK-Button** to lock a service.

You can also deactivate the parental lock in this menu. Navigate to the option "Parental lock" and press the **OK-Button**.
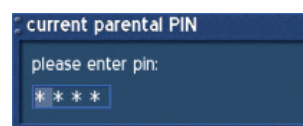
You will prompted for your PIN.

Once you have locked a service you will see the locked symbol next to its name in the service list. You will be prompted for your PIN every time you want to access the service from now on.

33.   Unlocking a service

Press the **OK-Button** to open the service list.

Navigate to the service you want to unlock and press the **Menu-Button**.

You can unlock any entry of your choice in the service list. (**All services**, **Satellites**, **Providers** and **Bouquets**)
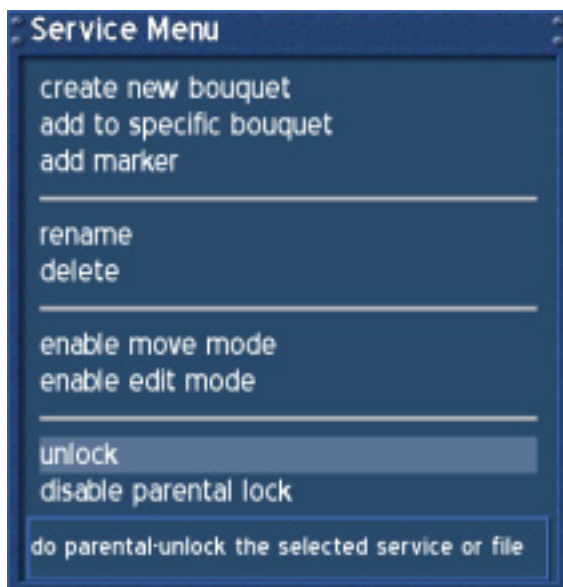
Navigate to the option "Unlock" and press the **OK-Button** to unlock a service.
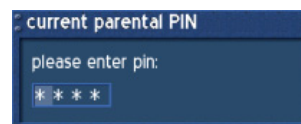
You will prompted for your PIN.

Once you have unlocked a service you will he locked symbol next to its name in the service list will disappear.

34. Audio/Video settings

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
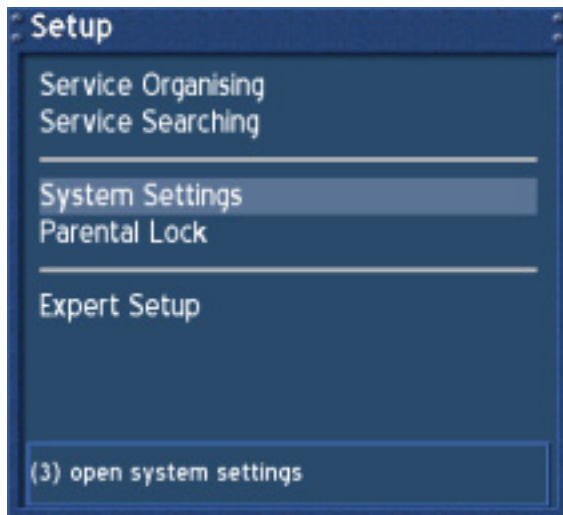
Navigate to the option "System" and press the **OK-Button**.

Navigate to the option "A/V settings" and press the **OK-Button**.

A/V Settings

Color Format: RGB
Aspect Ratio: 4:3 letterbox
TV System: PAL

☐ Disable WSS on 4:3
☐ AC3 default output

● save   ● test

choose color format (left, right)

Use the **Navigation-Buttons left** and **right** and the **OK-Button** to change the values.

Color format:
CVBS(FBAS), **RGB** (Red, Green, Blue separated), **SVideo** (Color- and Brightness signal separated) and **YPbPr** (Component signal e.g. for Projectors).

Aspect ratio:
4:3 Letterbox (Standard), (16:9 programs will be displayed on 4:3 TV's with black beams at top and bottom)
4:3 Panscan (16:9 programs will be zoomed to full high on 4:3 TV's, parts of the picture on the left and right side will cut off)
16:9 (programs transmitted in 16:9 will be displayed automatically in 16:9, on 4:3 TV's the picture will be reduced in height)

Disable WSS on 4:3:
Check the checkbox to disable zooming on some 16:9 TV's during 4:3 transmissions.

TV System:
Choose the standard that your TV supports.
PAL; **PAL + PAL60**; **Multinorm** and **NTSC**.

AC3 default output:
If a program is transmitted with an AC3 audio track (e.g. Dolby Digital), the Dreambox switches automatically to this audio track. The AC3 signal will only be available at the optical socket. The Dreambox has no built-in Dolby Digital Decoder, AC3 signals are not available on the analog socket, therefor you need an external Dolby Digital Amplifier to adjust the volume.

Test:
Press the **blue Options-Button** to activate the test screen mode. Press the number 1-8 on the **Numeric Keypad** to select a test screen. Press any other key to quit the test screen mode.

Press the **green Options-Button** to save your settings.

You will be taken back to the "System" menu.

35.   Keyboard

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
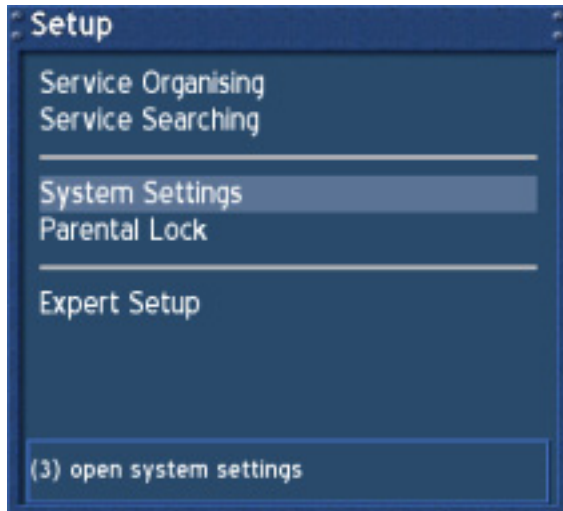
Navigate to the option "System Settings" and press the **OK-Button**.

Navigate to the option "Keyboard Setup" and press the **OK-Button**.

Press the **OK-Button** to open the drop down menu and select your desired keyboard layout.

Press the **green Options-Button** to save your settings.

36.   OSD settings

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
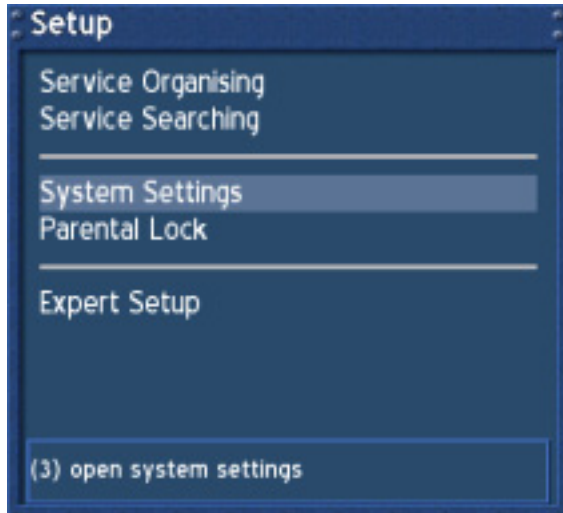
Navigate to the option "System Settings" and press the **OK-Button**.

Navigate to the option "OSD settings" and press the **OK-Button**.
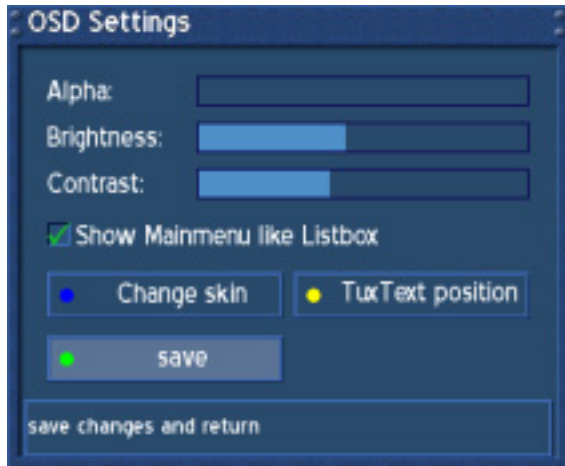
Using the **Navigation-Buttons left** and **right** you can change the transparency, brightness and contrast settings of the OSD (On Screen Display).

Alpha:
The "Alpha" option controls how strong you will see the TV picture through the OSD menu.

Brightness:
Changes the brightness of the OSD menu.

Contrast:
Changes the contrast of the OSD menu.

Show main menu as list box:
Check the checkbox if you want to view the main OSD menu like all other menus, as a list box.

Change skin:
See section **Skin Setup**

TuxText Position:
See section **Setting the Teletext position**
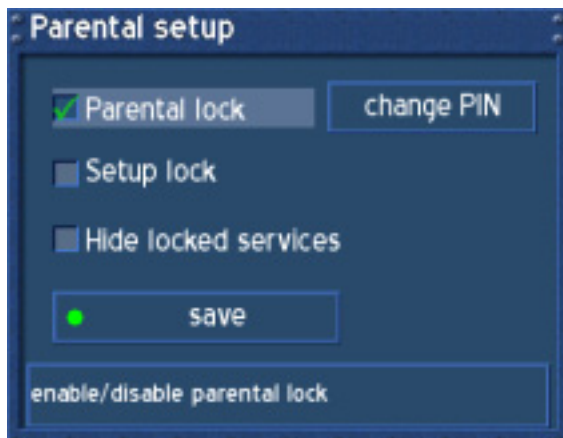
Press the **green Options-Button** to save your settings.

You will be taken back to the "System" menu.

36.1   Skin Setup

Please read the section **OSD settings** to learn how to get into this menu.

A skin changes the appearance of the OSD.

Choose the skin to your liking and press the **OK-Button** to select it.

The standard skin is Screwed Stone.

See section **Available skins** for a complete list of available skins.
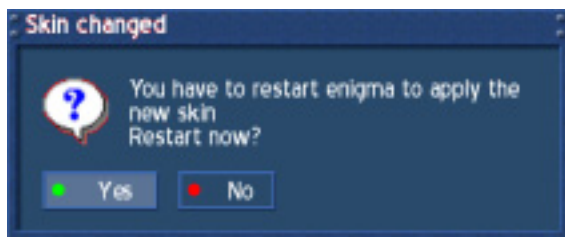
To completely activate a skin Enigma has to be restarted.

Make your choice and press the **green Options-Button** to activate the skin.

Press the **red Options-Button** to discard any changes.

36.2   Available Skins

Bluenigma BIG

Silver Metal

Neutrino-style

Screwed Stone

Carbon

BlueQT

Simple and Stylish

The skin **Simple and Stylish 16:9** looks just like the **Simple and Stylish** skin. It is only optimized for a 16:9 TV screen.

36.3   Setting the teletext (TuxText) position

Please read the section **OSD settings** to learn how to get into this menu.

What is TuxText? TuxText is a Plugin (additional Software), which allows the Dreambox to decode the digital Teletext. TuxText is faster and easier to use than the regular teletext that is build in to your TV screen.

This menu is used to adjust the position of the TuxText. Maybe the clock does not appear or the text pages are not shown in the middle of the screen.
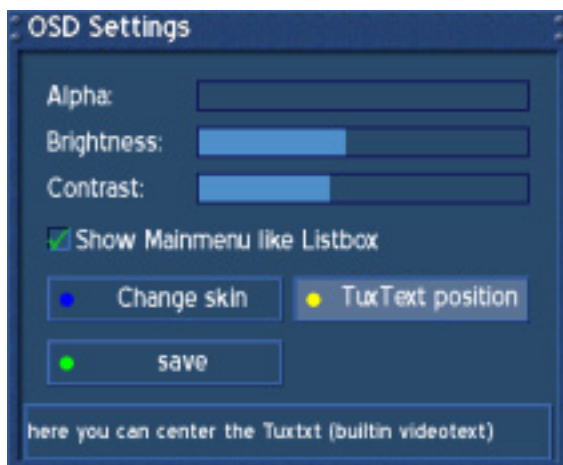
Press the yellow Options-Button to enter the TuxText position setup.
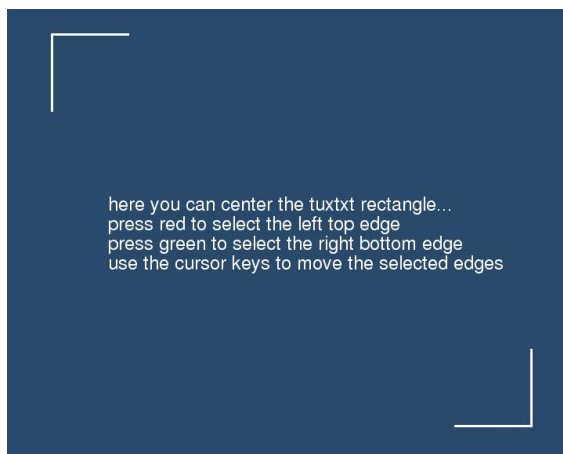
You see the blue screen as depicted on the left.

Press the **red Options-Button** to select the upper left corner.

Use the **Navigation-Buttons** to move the rectangle in the upper left corner.

Press the **green Options-Button** to select the lower right corner.

Use the **Navigation-Buttons** to move the rectangle in the lower right corner.

Attention:
If you don't see any rectangle, then they are out of range. Please adjust the rectangle towards the middle of the screen..

Once the positions are set press the **OK-Button** to save the settings.
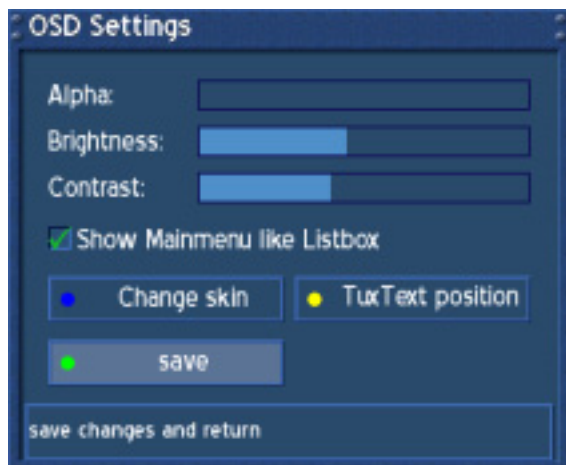
Press the **green Options-Button** to save your settings.

You will be taken back to the "System" menu.

37. Teletext (TuxText)

What is TuxText? TuxText is a Plugin (additional Software), which allows the Dreambox to decode the digital Teletext. TuxText is faster and easier to use than the regular teletext that is build in to your TV screen.
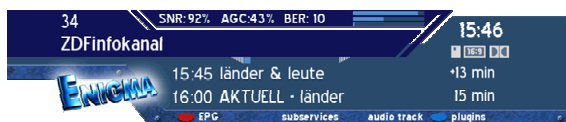
You are in the TV or Radio mode.
Press the **TEXT-Button** to activate the Teletext.

Keep in mind that not every station submits teletext!

Alternative: Press the **blue Options-Button** to enter the Plugins menu.

You will see the menu depicted on the left.

Navigate to the option "Teletext" and press the **OK-Button**.

TuxText navigation:

Press the **OK-Button** to enter the interactive mode. Use the Navigation-Buttons to select a text page and press the **OK-Button** to call this site. You don't need to type in a Text page number in this mode, but it is still possible.

Press the **EXIT-Button** to exit.

Press the **Mute-Button** a couple of times to toggle between alpha-mode, invisible-mode and full mode. The alpha-mode shows the picture from the running program through the Text pages. The invisible-mode shows the complete picture from the running program without exiting the TuxText. The full-mode brings back the text page.

Press the **Volume-up-Button** to toggle between double high from the upper half, double high from the lower half and full view Text page.

Press the **Volume-down-Button** to activate or deactivate the PIG-Mode (Picture in Graphics). Same view from Text page and Program picture. (best results are show on 16:9 TV's during 4:3 transmission).

TuxText configuration menu:
If teletext page 100 is shown you can press the **MENU-Button** to enter the configuration menu of the TuxText.

You have the following options:

Teletext - Selection:
Use the **Navigation-Button left** or **right** to choose another teletext provider from the current transponder and press the **OK-Button** to view.
This option is only available if there is more than one station on the current provider that transmit teletext.

Aspect ratio:
16:9 im Standard-Modus = ein/aus (16:9 during Standard-Mode = enable/disable)
Enabling this shows the TuxText in 16:9 Aspect Ratio. Press the **OK-Button** to enable or disable this option. The default setting is disabled.

16:9 im TextBild-Modus = ein/aus (16:9 during TextPicture-Mode = enable/disable)
Enabling this, switches the TV to 16:9 Aspect Ratio if the PIG-Mode is activated with the **Volume-down-Button**. Press the **OK-Button** to enable or disable this option. The default setting is disabled.

Note:
On some older 4:3 TV's these Modes may not work. If enabled, it could happen, that your TV switches away from the VCR or A/V socket. The reason is a technical problem. The Switch signal on the Scart connector is at PIN 8 using 12 Volts. Using a 16:9 Aspect Ratio switches the PIN 8 to 6 Volts, which some older 4:3 TV's can not handle. If you are using a 4:3 TV, we suggest not to enable these modes.

Brightness:
Here you can adjust the brightness of your Teletext. Press the **Navigation-Buttons left** or **right** to adjust the brightness.

Alpha:
Here you can adjust the alpha value of your Teletext. Press the **Navigation-Buttons left** or **right** to adjust the alpha value.

National codepage:
automatische Erkennung = ein/aus (automatic detection = enable/disable)
The national codepage detection is used to display the teletextpages with the right letters for your location. Press the **OK-Button** to enable or disable this option. The default setting is enabled. If disabled, use the **Navigation-Buttons left** or **right**, to choose your codepage.

Additional information can be found at www.tuxtxt.net
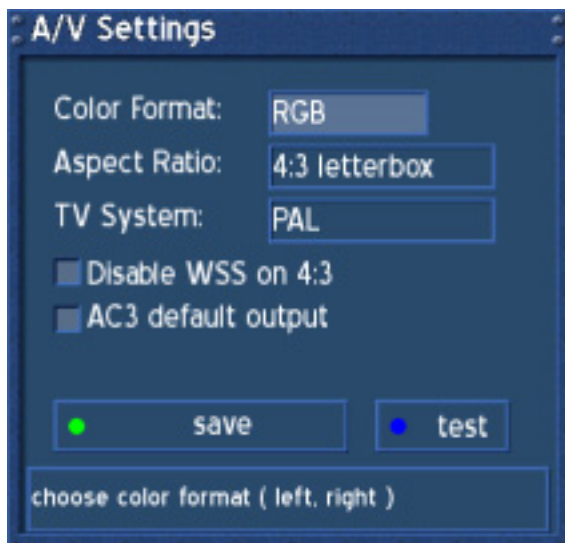
38.   Expert setup

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
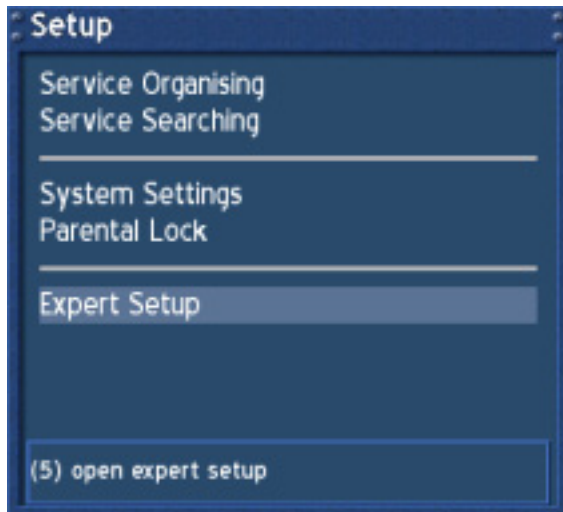
Navigate to the option "Expert Setup" and press the **OK-Button**.

*Serviceselector help buttons:*
Press the **OK-Button** to turn the colored help buttons off. The default setting is enabled.

Show Sat position:
Putting a check behind this option by pressing the **OK-Button** will show the sat position of the current station in the Infobar.

Enable Fast zapping:
Pressing the **OK-Button** will remove the check behind this option. Switching stations will be a few nano seconds slower.

Skip confirmations:
Press the **OK-Button** to put a check behind this option. No more confirmation windows will be shown. Be careful with this option. The System does not ask anymore, if you would like to see the recorded movie after stopping recording nor if you would like to really delete a movie. The default setting is disabled.

Expert Setup

Hide error windows
Auto show Infobar
Show remaining Time   ✓
Use http authentification   ✓
Don't open serial port   ✓
Auto bouquet change
Disable teletext caching
Enable Zapping History

don't care about actual mode when zapping in history list

Hide error windows:
If enabled no more error messages, i.e.: service not found, will be shown.

Automatically show Infobar:
If enabled the Infobar will be shown every time a new show starts.

Show remaining Time:
If enabled the remaining time rather than the total time of the running show will be displayed in the Infobar.

Use http authentification:
If disabled you will no more need a username and password to access the web interface of your Dreambox.

Do not open serial interface:
If enabled no more debug messages will be send from Enigma to the serial interface.

Auto bouquet change:
If enabled your Dreambox will automatically jump to the next Bouquet once you have reached the last entry in a Bouquet.

Disable teletext caching:
If enabled no more background caching of teletext pages will happen.

Enable Zapping History:
If enabled you are able to switch to a different service type in the file mode.

Press the **Exit-Button** to quit this menu.

38.1   Communication setup (Setting up LAN, NFS shares)

Please read the section **Expert setup** to learn how to get into this menu.

Navigate to the option "Communication setup" and press the **OK-Button**.

Use the **Navigation-Buttons** and the **Numeric Keypad** to enter or change the values.

IP:
Enter the IP address here.

DHCP:
If enabled your Dreambox will get its IP from a DHCP server. Disable this option to set a static IP address.

Netmask:
Enter the subnet mask (Usually 255.255.255.0).

Type:
LAN (Local Area Network); Connection to the home Network. The default setting is LAN.
WAN/PPPoE (Wide Area Network) / (Point-to-Point Protocol over Ethernet); Direct Connection to the Internet, (e.g. DSL Modem directly connected to the Dreambox). Please proceed to next passage for WAN settings

Nameserver:
Enter the DNS-Server's IP address here. DNS is used to translate a Domain name to an IP address. Normally, if the Type is set to LAN, there is no need for a DNS entry. If the Dreambox is connected to the Internet over a router, enter the router's IP address Here.

Gateway:
Enter the router's IP address here, if the Dreambox is connected to the Internet over a router.

Activate network:
Setting a check enables the network. The default setting is disabled.

Press the **green Options-Button** to save your settings.

Attention:
If you are using a DHCP server in your LAN, configure the DHCP server so it does not assign the IP address used by the Dreambox. Otherwise an IP address collision is possible. Refer to the DHCP server's manual about how to configure a DHCP address pool.

Port:
Enter a port number of your choice to configure the HTTP port for the Dreambox's web interface.The default port is 80.

If the default port is set you can simply enter http://ip-of-your-box into the address bar of you browser to access the web interface. Otherwise you have to enter http://ip-of-your-box:portnumber

Mount Manager(1/8)

IP: 10 .0 .0 .97 NFS
Dir:
LocalDir: /mnt
Options:
Extra: nolock,rsize=8192,wsize=8192
☐ Automount

← ● umount ● mount ● save →

press ok to mount this share

Checking the checkbox in front of the option "Automount" will automatically mount the selected NFS share at the next boot of your Dreambox.

Press the **green Options-Button** to test the mount. You will get a system message if it was successful or not.

Press the **yellow Options-Button** to save you settings.

Press the **red Options-Button** to unmount the selected NFS share.

Navigate between the 8 possible shares by using the **Navigation-Buttons left** or **right**.

Pressing the blue Options-Button in the "Communication setup" menu will take you to the "Mount Manager" menu. You can setup up to eight different configurations to connect your Dreambox to shared folders on your PC. Right now only NFS sharing is supported.

IP:
IP address of the NFS server you want to access.

NFS:
Right now only the option NFS is available. Once more share types are supported you can select the type in this drop down menu.

Dir:
Enter the name of the NFS share on the NFS server that you want to access.

LocalDir:
The default setting is /mnt and does not need to be changed unless you want to add more than one share. Adding more than one share requires you to create several sub directories via telnet on your Dreambox. The suggestion is to create /varmnt1 to /var/mnt8

Options:
Either choose the option "rw" to have read and write access or choose the option "ro" to have read-only access to the NFS share.

Extra:
You can add additional mount parameters here. You have to know what you are doing otherwise leave this setting alone.

38.2   NGrab - Streaming Setup

Please read the section **Expert setup** to learn how to get into this menu.

In this menu you can set the IP address and port number of the NGrab server. The server can be running on any workstation or server in the LAN or WAN.
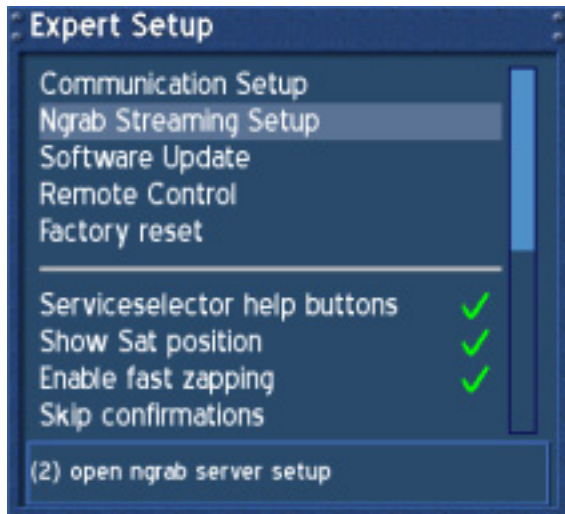
Navigate to the option "NGrab-Streaming" and press the **OK-Button**.
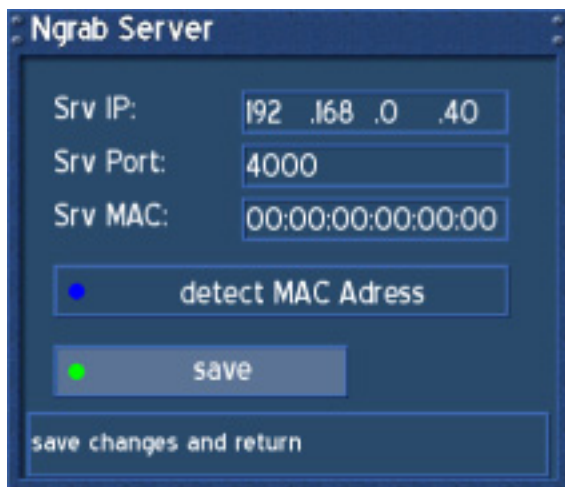
Srv IP:
Enter the IP address of the server or workstation running the NGrab software.

Srv Port:
Enter the port number of the server or workstation running the NGrab software.

Srv MAC:
The MAC address of the NGrab server will show once you have it running and press the **blue Options-Button**.

The MAC address is needed for the WOL (Wake On LAN) function of the server. The server needs to fully support APM (Advanced Power Management) and WOL to use this function.

Press the **green Options-Button** to save your settings.

You will be taken to the "Expert setup" menu.

38.3   Manual software update

Please read the section **Expert setup** to learn how to get into this menu.

Navigate to the option "Software update" and press the **OK-Button**.
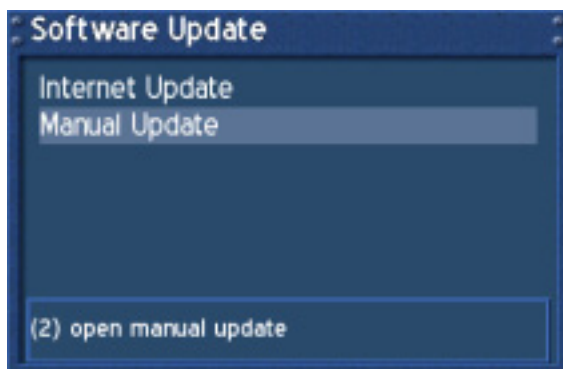
Navigate to the option "Manual update" and press the **OK-Button**.

Requirements for the manual update:
You have set an IP address and subnet mask in the "Communication setup" menu.
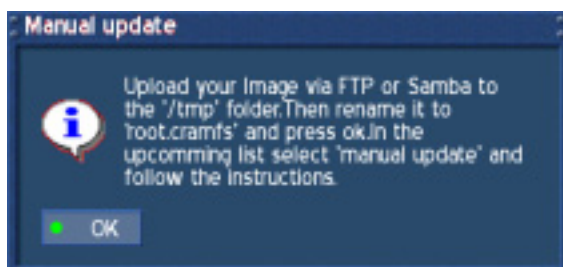
Follow the instructions on your screen.

Press the **green Options-Button** to start the update.

Follow the instructions on your screen.

38.4   Remote control setup

Please read the section **Expert setup** to learn how to get into this menu.

Navigate to the option "Remote control" and press the **OK-Button**.
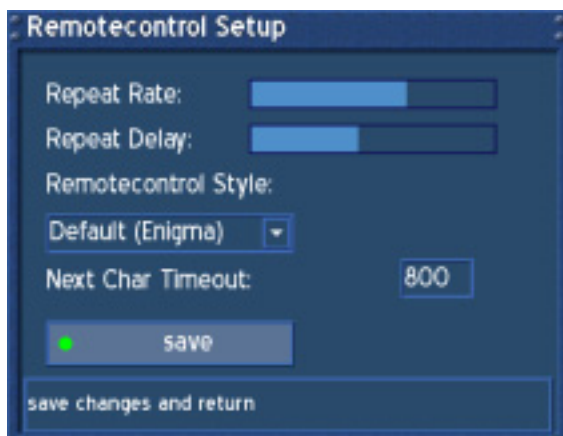
This Menu is used to customize the remote control for your needs.

Use the **Navigation-Buttons left** or **right** to adjust the Repeat Rate and the Repeat Delay.

Press the **green Options-Button** to save your settings.

You will be taken back to the "Expert" menu.

38.5   Reset to factory defaults

Please read the section **Expert setup** to learn how to get into this menu.

Navigate to the option "Remote control" and press the **OK-Button**.
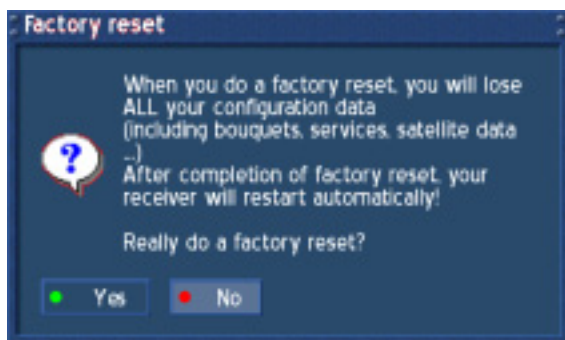
Follow the instructions on the screen and pick your choice.

39.   Hard disk Management

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Setup" and press the **OK-Button** to select.
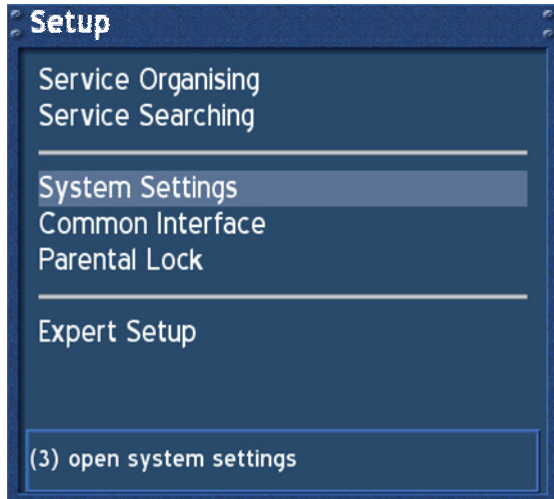
Navigate to the option "System" and press the **OK-Button**.
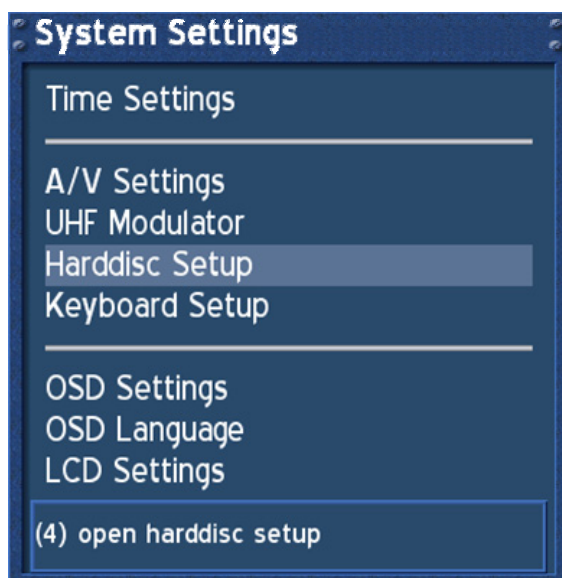
Navigate to the option "Hard disk" and press the **OK-Button**.
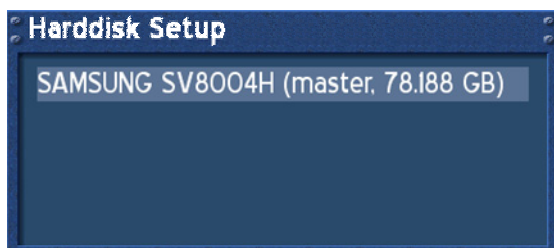
Navigate to the option "Samsung SV8004H (master 78.188 GB)" and press the **OK-Button**.

If you have installed another hard disk this option will differ from the one depicted.

39.1   Hard disk formatting

Please read the section **Hard disk Management** to learn how to get into this menu.
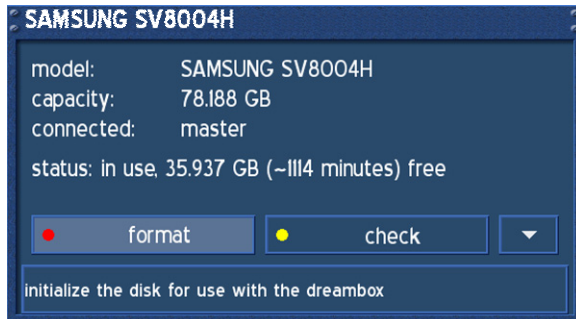
The Hard disk Management dialog will open up.

Press the **red Options-Button** to format the Hard disk.

Press the **yellow Options-Button** to run a Hard disk check.

Press the **Exit-Button** to quit.
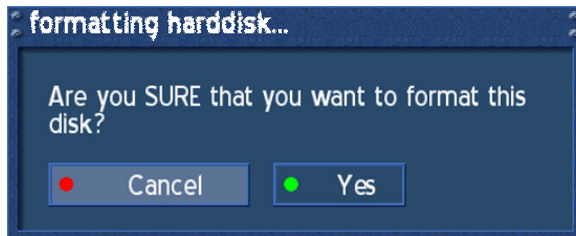
You will be asked if you really want to format the Hard disk. Press the **red Options-Button** to abort.

Press the **green Options-Button** to start formatting the Hard disk.

40.   Instant recording

The Dreambox DM 600PVR offers you several methods to record a film. The standard solution is recording onto a built-in hard disk. Additionally you can record via Ethernet using a so called NFS mount or a NGrab server, if you have no hard disk installed in your Dreambox. Right now we assume that you have installed a hard disk in your Dreambox.

Press the **VIDEO-Button** to access the PVR mode. During replay you can see the control symbols in the Infobar.

Attention:
The Infobar will disappear after a short period to time. Press the **OK-Button** to reveal it again.

You can see the control symbols for the PVR-Mode on you remote control below the Options-Buttons.

Keep in mind that you have to be in the PVR-Mode to these options. You can check this by pressing the **OK-** The Infobar will reveal and should show the depicted control symbols. If they are not shown you simply have to press the **VIDEO-Button** once again.

The Infobar does not have to be visible to use the PVR-Mode.

In PVR-Mode the Options-Buttons are mapped as described below:
Red Options-Button = Rewind
Green Options-Button = Play
Yellow Options-Button = Pause
Blue Options-Button = Forward
TV-**Button** = Stop

Select a TV or Radio station from the service list. Activate the PVR Mode by pressing the **Radio-Button** (Record). The recording is indicated by a flashing symbol in the Infobar. During recording you can watch another recording or another channel.
Pressing the **Up/Down-Buttons** on your remote control activates the service list.
The recording will continue in the background.

40.1   Stop recording

Press the **TV-Button** again and you will be asked if you want to stop the recording.

Use the **Navigation-Buttons up** and **down** to select. Press the **OK-Button** to activate. Otherwise you can press the **green Options-Button** for "Yes".
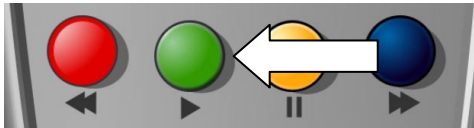
or the red Options-Button for "No".
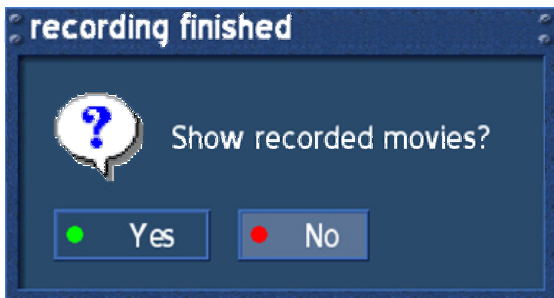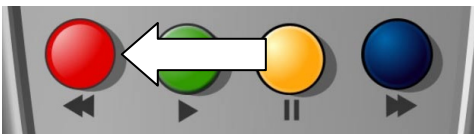
After you quit the recording you will be asked if you want to view the recorded film.

Use the **Navigation-Buttons up** and **down** to select. Press the **OK-Button** to activate. Otherwise you can press the **green Options-Button** for "Yes".
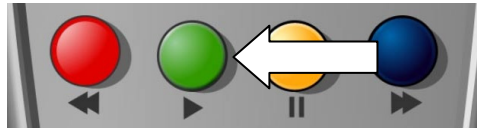
or the red Options-Button for "No".
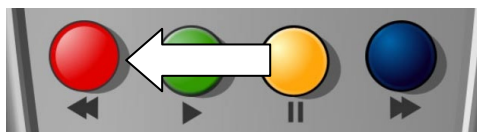
If you have selected "Yes" you will be taken to the File-Mode (Recorded films). Here you can see a list of all your recordings.

Use the **Navigation-Buttons up** and **down** to select. Press the **OK-Button** to watch a recording.

During replay you can see the control symbols in the Infobar.

Press the **Navigation-Buttons up** and **down** or the **Video-Button** to get back to the list of recordings.

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40.2   Watch a recording

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "File Mode" and press the **OK-Button** to.

Alternatively you can press the **TV-Button** or use the **Up/Down-Buttons** while in TV-Mode to open up the service list. While the service list shows, press the **Text-Button** to get into the File-Mode as well.

Use the **Navigation-Buttons up** and **down** to select. Press the **OK-Button** to watch a recording.

During replay you can see the control symbols in the Infobar.

Press the **Navigation-Buttons up** and **down** or the **Video-Button** to get back to the list of recordings.

40.3   Delete a recording

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "File Mode" and press the **OK-Button** to.

Alternatively you can press the **TV-Button** or use the **Up/Down-Buttons** while in TV-Mode to open up the service list. While the service list shows, press the **Text-Button** to get into the File-Mode as well.

Use the **Navigation-Buttons up** and **down** to select. Press the **Menu-Button** to access the "Service menu".
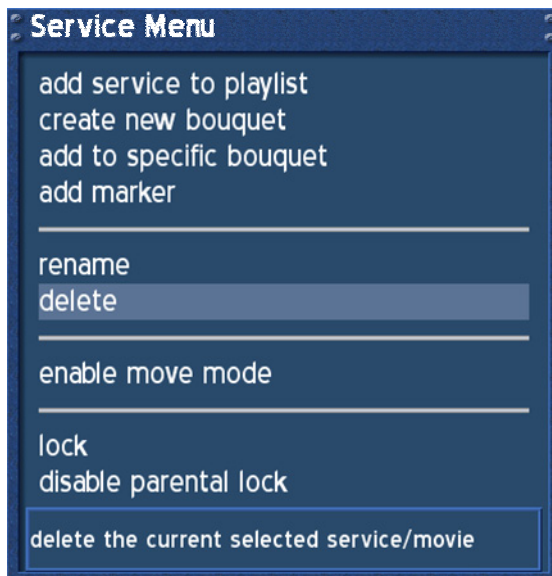
Use the **Navigation-Buttons up** and **down** to select "Delete" and press the **OK-Button**.
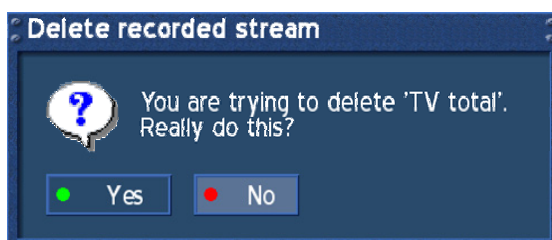
You will be asked if you want to delete the recording.

Choose "Yes" and you will be taken back to the selection of recordings.

40.4   Rename a recording

Please read the section **Delete a recording** to learn how to get into this menu.
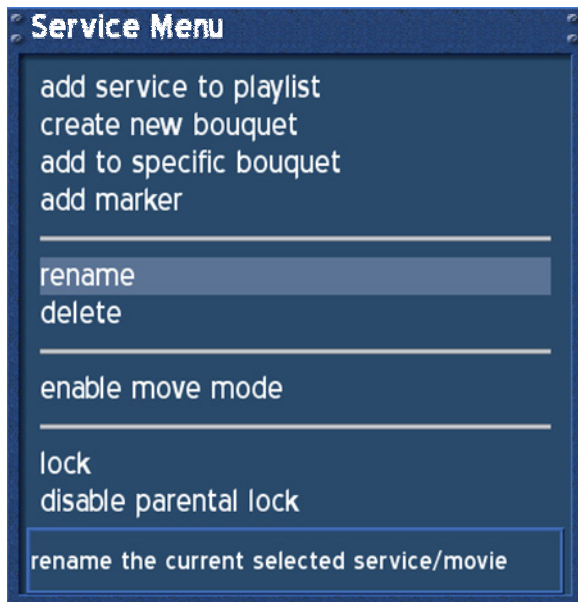
Navigate to the option "Rename" and press the **OK-Button**.
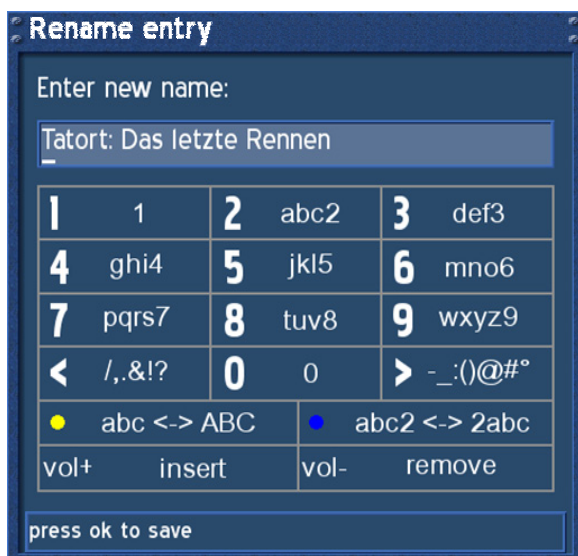
By repeatedly pressing the buttons of the Numeric-Keypad you can select the letters.

The yellow Options-Button toggles between capital and small letters.

The Volume + Button adds a blank.

The Volume – Button deletes the selected letter.

Use the Left/Right-Buttons to get to the desired position.

Press the blue Options-Button to toggle between numeric and letter character set.

Press the OK-Button to save and quit.

41.   Recording by timer and EPG

If no OSD menu is visible on your screen, press the **TV-Button** to open the service list.

Press the **INFO-Button**.

Alternatively you can press the **red Options-Button** to directly access the station's EPG.

Select "Channel EPG" and press the **OK-Button**.

In this dialog the **Options-Buttons** are mapped differently!

Press the **Help-Button** to get additional information about possible timer options.

Help

- 🟢 add this event as DVR Event to timer list
- 🟡 add this event as NGRAB Event to timer list
- 🔵 add this event as simple Switch Event to timer list
- 🔴 remove this event from timer list

(12)   EPG Liste

→[ROT]:
. . . .

In der EPG-Liste sehen Sie die Titel und Anfangszeiten der aktuellen und nachfolgenden Sendungen

Der Umfang der EPG-Liste ist vom Anbieter abhängig
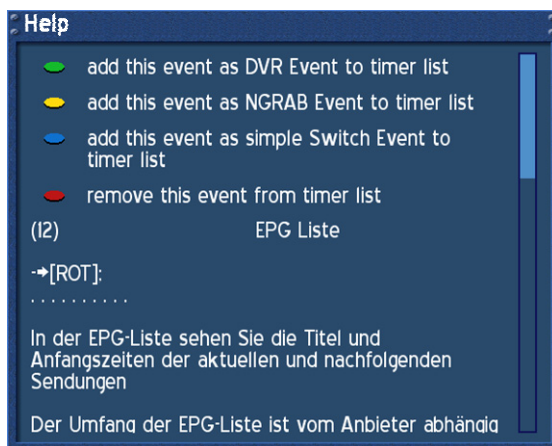
Press the **green Options-Button** to add the selected show as hard disk recording to the timer list.

Achtung:
Für die NGrab Aufnahme ist es notwendig, das Netzwerk konfiguriert und die NGrab Software eingerichtet zu haben.

Drücken Sie die **EXIT-Taste** oder die **OK-Taste**, um das Fenster zu schließen.
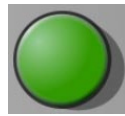
Press the **yellow Options-Button** to add the selected show as NGrab recording to the timer list.

EPG - Das Erste

Mon 30.10.   22:45 Beckmann
Tue 31.10.   00:00 Nachtmagazin
Tue 31.10.   00:20 Dittsche
Tue 31.10.   00:50 Feuer über Afrika
Tue 31.10.   02:10 Tagesschau
Tue 31.10.   02:15 Sturm der Liebe
Tue 31.10.   03:05 Die großen Schlachten
Tue 31.10.   03:50 ARD-Ratgeber: Bauen + Wohnen
Tue 31.10.   04:20 Die schönsten Bahnstrecken Europas
Tue 31.10.   04:55 Tagesschau
Tue 31.10.   05:00 Report München
Tue 31.10.   05:30 Morgenmagazin
Tue 31.10.   09:00 Tagesschau
Tue 31.10.   09:05 Vater wider Willen
Tue 31.10.   09:55 ARD-Wetterschau

Press the **blue Options-Button** to add the selected show as switch only timer to the timer list.

Press the **red Options-Button** to delete the selected timer.
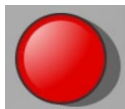
Select a show that you would like to record.

Press the green **Options-Button**.

Timer Edit

Feuer über Afrika · Spielfilm Großbritannien 1954 (Malaga)

☐ Repeated timer   Nothing ▾

2006 ▾ | October ▾ | Tuesday, 31 ▾ | 00:50
2006 ▾ | October ▾ | Tuesday, 31 ▾ | 02:10

record DVR ▾ | Das Erste

🟢   apply   🔵   scan EPG

for a multiple event enable this

The "Timer edit" menu will open up.

Use the **Navigation-Buttons** to access the options and press the **OK-Button** to open up any drop-down-menus.
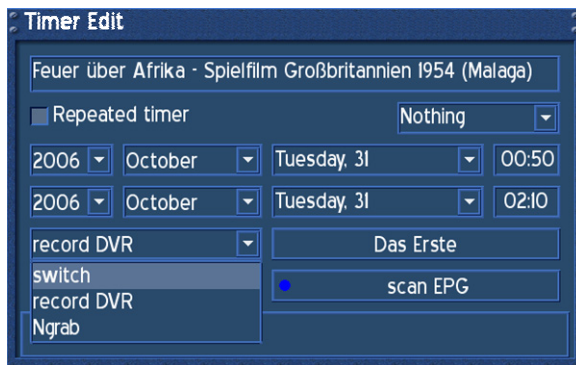
The DVR-Recording menu gives you the same options that were described above by pressing the **Options-Buttons**.

Switch – Switch only timer
DVR-Recording – Record to hard disk
NGrab – NGrab Ethernet recording

The "nothing" drop-down-menu gives you the ability to choose what should happen after the recording finished.

Standby – Your Dreambox will go into Standby mode after the recording finished.

Shutdown – Your Dreambox will go into Deep-Standby mode after the recording finished.

Press the **green Options-Button** to save the settings.

After you have set a timer you will be taken back to the EPG view.

The timer is indicated by the clock symbol in the EPG.

Press the **Exit-Button** to leave the EPG.

41.1   Setting Sub Service timers using the EPG

The process is exactly the same as in the chapter before. The difference however is that you choose a service that offers sub services and press the **red Options-Button** to access the EPG. Afterwards press the **green Options-Button** to add it as a DVR-Recording. The "Timer edit" menu will open up.

The Sub Service menu will open up. Select the Sub Service that you want to record and press the **OK-Button**.
After you have set a timer you will be taken back to the EPG view.

The timer is indicated by the clock symbol in the EPG.

Press the **Exit-Button** to leave the EPG.

42.   Timeshift

Once you started an instant recording you can fast-forward and rewind while recording as long as you have already recorded at least 1 minute long.

Press the **yellow Options-Button** to pause the screen (video and audio will pause). The recording will continue in the background. Press the **yellow Options-Button** again to resume watching.

This way you won't have to miss anything ever again if you quickly have to catch a phone call.
The Timeshift-Mode can be exited by pressing the **TV-Button**.

43.   Timer

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Timer" and press the **OK-Button** to select.
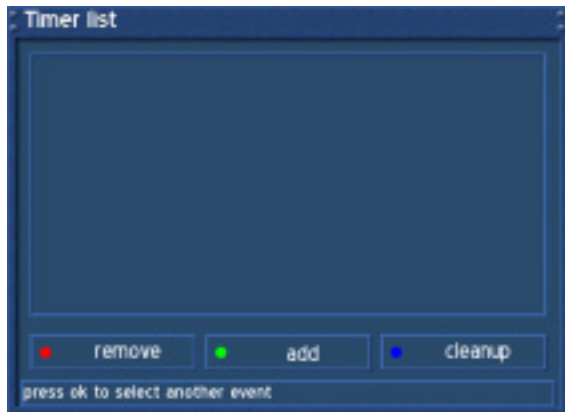
This is the timer list.

You can see a timer event that has been entered as an example.

A green checkmark in front of the timer event means that is has been successfully executed.

A red cross in front of the timer event means that is has been aborted or not executed at all.

Sleeptimer events are also shown in this list and can be edited or deleted here.

Press the blue Options-Button to clean up the timer list.

We suggest only adding timer event through the EPG. This timer list is mainly meant for management purposes.

44. Information - Streaminformation

If no OSD menu is visible on your screen, press the **Menu-Button** to open the main OSD menu. Navigate to the option "Information" and press the **OK-Button** to select.
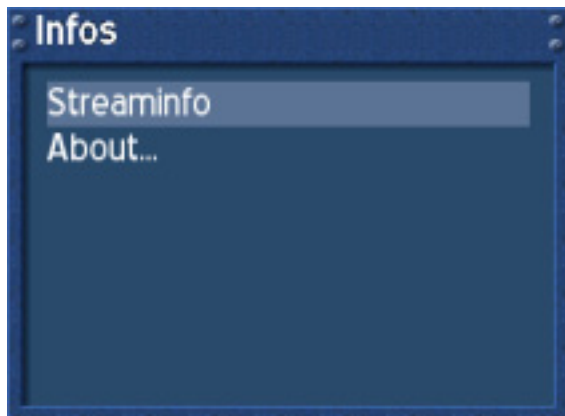
Navigate to the option "Stream information" and press the **OK-Button**.

Use the **Navigation-Buttons left** and **right** to switch between the three windows.

Pressing the **Exit-Button** will close this window.

This window shows detailed technical data about the current service.
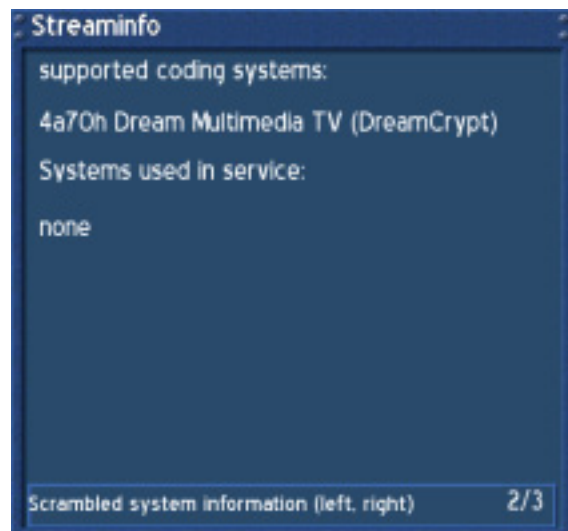
This window shows information about the used and/or supported encryption types.
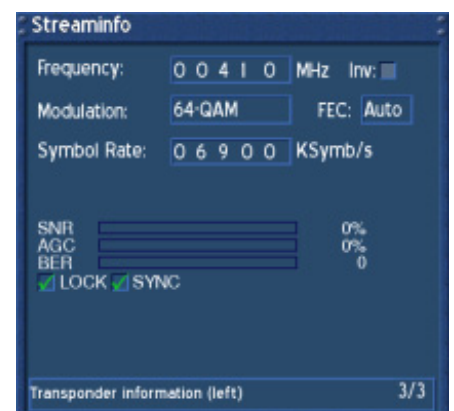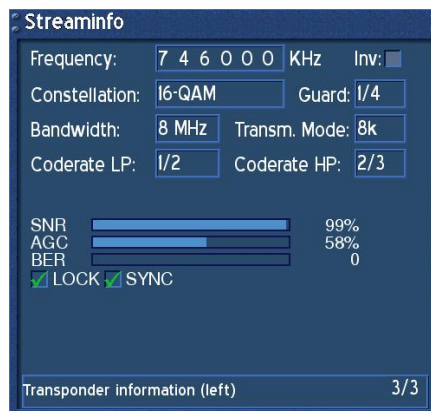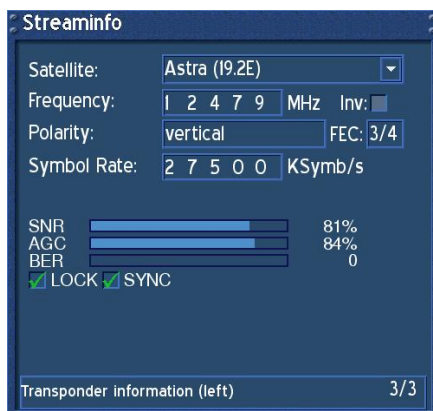
This window shows the additional technical data of the current service.The left picture shows the DM 600 PVR-S, the middle one the DM 600 PVR-T and the right one the DM 600 PVR-C

45.   Information - About

Please read the section **Information – Streaminformation** to learn how to get into this menu.
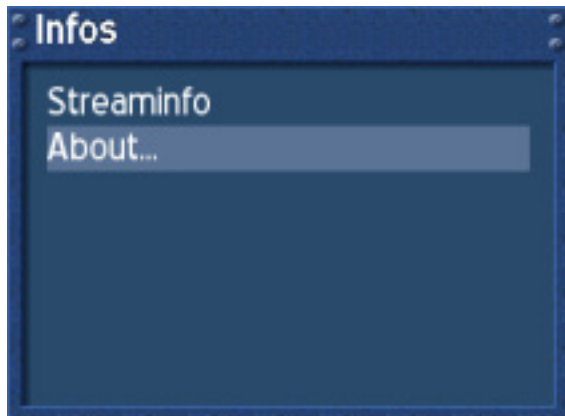
Navigate to the option "About…" and press the **OK-Button**.

This window summarizes all relevant information about the system.

Press the **green Options-Button** to close the window.

The Information „Tuner:" depends on the type of your Dreambox DM 600 PVR:

DM 600 PVR-S: Satellite
DM 600 PVR-C: Cable
DM 600 PVR-T: Terrestrial

46.   Troubleshooting

Problem	Possible cause	Solution
No audio, no video, LCD lit	Faulty wiring	Check wiring and connections
	Faulty LNB	Exchange LNB
	Wrong Tuner setting	Review settings
	Dish aligned incorrectly	Realign dish
Beamlike blackouts in the video	Heavy rain or snow	Remove snow from dish
	Dish aligned incorrectly	Realign dish
	Dish is too small	Install larger dish
	An obstacle between dish and satellite (e.g. house or tree)	Reposition dish so it has a clear "view" towards the satellite
No reception on a channel that was working before	Dish aligned incorrectly or faulty	Check dish
	Channel is transmitted in a new slot	Start service scan
	The transmission of the channel was terminated	_____
No reception of the channels: Sat1, Pro7, Kabel …	Interference from a wireless DECT phone	Increase distance between the phone's base station and the Dreambox or buy a coaxial cable with a higher shielding value
You cannot record anything anymore	Hard disk is full	Delete no longer needed recordings
Remote control is not working	Batteries are inserted incorrectly	Remove batteries and check polarity
	Batteries are empty	Insert new batteries
	Wrong remote control mode (Dream-Mode, TV-Mode)	Press Dream-Mode or TV-Mode button
	Software is not reacting	Reboot Dreambox
Dreambox does not react	Dreambox is locked up	Reboot Dreambox

47.   TV-Mode setup

A four digit device code is selected from the **device list** and entered into the remote control.
The most recent **device list** can be found on our website.

47.1   Programming the remote control

-   Press the **TV-Mode-Button** once.

-   Press the **SHIFT**/**Setup-Button** for 3 seconds,
    the **TV**-**Mode-Button** will flash twice.

-   Use the **Numeric-Keypad** to enter the four digit device code into the remote control.
    The **TV-Mode-Button** will flash once for every digit you enter. Once you have entered all
    four digit the **TV-Mode-Button** will flash twice.

-   The remote control exits the programming mode automatically.

-   If no code is entered within 10 seconds the remote control will exit the programming
    mode automatically.

47.2   Device list

A.R. Systems	0067 0382	Black Star	0277
Accent	0067	Blacktron	0312
Admiral	0117 0123 0448 0243 0294	Blackway	0312
Adyson	0247 0246	Blaupunkt	0221 0225 0230 0243 0357 0358
Agashi	0246		0348
Agazi	0294	Blue Sky	0248 0312 0485 0067 0517 0698
AGB	0546	Blue Star	0312
Agef	0117	Bondstec	0277
Aiko	0246 0039 0067 0401 0065 0463	Boots	0247
	0102 0391 0221 0294 0247	BPL	0312 0067
Aim	0067	Brandt	0531 0139 0429 0235 0267 0363
Akai	0391 0238 0401 0067 0463 0221		0226 0228 0317 0365
	0065 0039 0102 0248 0193	Brinkmann	0448 0067 0549
	0546 0586 0578 0510 0247	Brionvega	0067 0117
	0661 0246 0294	Britannia	0246 0247
Akiba	0248 0312 0485 0067	Brother	0294
Akura	0248 0389 0312 0039 0442 0294	Bruns	0117
	0067	BSR	0193 0324
Alba	0248 0265 0039 0448 0400 0385	BTC	0248
	0401 0067 0246 0277 0193	Bush	0248 0265 0193 0379 0039 0066
	0517 0066 0698 0609		0312 0067 0385 0401 0404
Alcyon	0106		0549 0294 0391 0517 0238
Allorgan	0236 0324 0247		0324 0247 0698
Allstar	0067	Capsonic	0294
Amplivision	0247 0430 0350 0400	Carad	0640 0067
Amstrad	0039 0546 0294 0248 0401 0463	Carena	0485 0067
	0442 0067	Carrefour	0066 0100
Anglo	0039 0294	Cascade	0039 0067
Anitech	0039 0106 0294 0067	Cathay	0067
Ansonic	0400 0132 0039 0067 0404 0193	CCE	0067
	0353 0441 0289 0277 0042	Centurion	0067
	0458	Century	0117 0243 0277 0268
Apollo	0503	CGE	0104 0114 0336 0106 0277 0193
Arc en Ciel	0429 0531 0139 0226 0363 0228		0448 0400
Arcam	0246 0429 0247	Cimline	0039 0265 0248
Aristona	0067 0586 0042	City	0039
Arthur Martin	0193 0430	Clarivox	0448 0100
ASA	0135 0376 0100 0134 0117	Clatronic	0248 0294 0400 0401 0247 0106
Asberg	0067 0106		0277 0067 0039 0132 0350
Asora	0039		0609
Asuka	0248 0294 0246 0312 0247	Clayton	0415
Atlantic	0067 0246 0236 0289 0350	CMS Hightec	0247
Atori	0039	Concorde	0039
Auchan	0193 0430	Condor	0246 0277 0312 0350 0067 0400
Audiosonic	0067 0139 0247 0400 0367 0294		0039 0132 0441 0448
	0248 0458	Contec	0246 0039 0187 0041 0066
Audioton	0247 0400 0294	Continental Edison	0531 0139 0267 0226 0228 0429
Ausind	0106		0363 0235 0317 0517
Autovox	0117 0236 0267 0106 0379 0247	Cosmel	0039 0367
	0277 0366	Crezar	0243
Awa	0041 0066 0039 0187 0404 0442	Crosley	0117 0277 0104 0114 0106 0193
	0067		0243
Ayomi	0268	Crown	0039 0400 0106 0067 0389 0609
Baird	0139 0373 0102 0247 0238		0448 0238 0517
Barco	0410 0193	CS Electronics	0277 0246 0248
Basic Line	0248 0039 0404 0067 0597 0193	CTC	0277
	0312	Cybertron	0248
Bastide	0247	Daewoo	0039 0067 0246 0404 0248 0247
Baur	0333 0225 0542 0067 0221 0391	Dainichi	0248 0246
	0379 0535 0040	Dansai	0067 0294 0065 0246
Bazin	0247	Dansette	0442
Beko	0400 0067	Dantax	0400
Beon	0067 0448	Datsura	0238
Best	0367 0400	Dawa	0067
Bestar	0067 0400 0404	Daytron	0039 0404 0067
Binatone	0247	Decca	0102 0546 0067 0247
		General Technic	0039
Deitron	0067	Genexxa	0248 0067 0442
Denko	0294	Germanvox	0243
Desmet	0350 0067	Goldhand	0246
Diamant	0067	Goldline	0367
Digiline	0067	GoldStar	0067 0400 0039 0247 0277 0246
Dixi	0039 0067 0277 0247		0193 0391

Domland	0424	Goodmans	0066 0102 0067 0039 0294 0546
Drean	0067		0404 0517 0401 0586 0373
DTS	0039		0265 0065 0510 0590 0247
Dual	0379 0247 0373 0289 0366 0549		0365
	0067 0382 0424 0429 0333	Gorenje	0400
Dumont	0117 0134 0132 0243 0247 0100	GPM	0248
	0102	Gradiente	0067 0083
Dux	0067 0042	Graetz	0391
Dynatron	0067	Granada	0067 0430 0256 0389 0042 0102
Elbe	0465 0268 0289 0400 0193 0067		0138 0238 0247 0106 0066
	0248 0221 0441 0640		0546 0503 0365 0590
Elcit	0117 0277 0546 0132 0193	Grandin	0312 0248 0430 0067 0039 0350
Elekta	0294 0312		0193 0485 0609 0640
Elin	0246 0067 0135 0134 0578 0391	Gronic	0247 0132
	0379 0193 0039	Grundig	0225 0221 0517 0100 0106 0235
Elite	0248 0067		0267 0067 0586
Elman	0132	Halifax	0294 0246 0247
Elta	0039 0294	Hampton	0246 0247
Emerson	0243 0117 0277 0067 0401 0100	Hanimex	0324
	0312 0350	Hanseatic	0067 0312 0379 0193 0391 0424
Emperor	0312		0243 0350 0458 0400 0039
Erres	0067 0042		0324 0247 0549
Etron	0067 0039 0193	Hantarex	0039 0243 0067 0132
Euro-Feel	0294	Hantor	0067
Europa	0067	Harwood	0039 0442 0067
Europhon	0067 0546 0132 0243 0247 0277	HCM	0294 0039 0312 0442 0247 0248
	0193		0448 0067
Expert	0236 0430 0289 0193	Hema	0247 0039
Exquisit	0067 0277	Hemmermann	379
Fenner	0404 0039	Hifivox	0531 0139 0226 0429
Ferguson	0317 0365 0268 0139 0590 0655	Hikona	0248
Fidelity	0246 0401 0193 0294 0067	HiLine	0294 0067
Filsai	0247	Hinari	0238 0066 0067 0248 0039 0193
Finlandia	0238 0376 0389 0578 0391		385 0473 0517 0265 0324
Finlux	0135 0134 0067 0376 0247 0102	Hisawa	0312 0248 0430 0485
	0193 0106 0546 0100 0117	Hit	117
	0132 0441 0661 0522	Hitachi	0255 0066 0379 0503 0193 0373
Firstline	0324 0351 0246 0067 0404 0415		0226 0228 0247 0336 0224
	0277 0039 0193 0132 0247		0546 0102 0067 0135 0586
	0441 0379 0561 0268 0102		0180 0578
	0265 0698 0238	Hitsu	039 0485 0248
Fisher	0134 0247 0066 0238 0400 0585	Hornyphone	0067 0042
	0117 0187 0391 0193 0333	Hoshai	0248 0485
	0379 0102	Huanyu	0404 0246
Flint	0067 0485 0102 0248	Hygashi	0247 0246
FNR	0132	Hyper	0039 0246 0247 0277
Formenti	0117 0243 0246 0350 0193 0106	Hypersonic	0391
Fortress	0123 0117	Hypson	0067 0294 0247 0312 0485 0430
Fraba	0400 0067		268
Friac	0039 0067 0132	Iberia	067
Frontech	0277 0294 0379 0247 0039	ICE	294 0247 0067 0401 0248 0246
Fujitsu	0236 0102 0132 0247 0193		039
Fujitsu General	0039	Ices	248 0246
Funai	0294 0324	Imperial	0067 0277 0400 0448 0193 0561
Galaxi	0132 0067		104 0114 0106 0379 0226
Galaxis	0400 0448 0067 0132	Indesit	267 0243
GBC	0243 0193 0039 0404 0248	Indiana	0067
GE	0590 0139 0317 0365 0373	Ingelen	0517 0640
Geant Casino	0193 0430	Inno Hit	0039 0102 0067 0248 0247 0106
GEC	0102 0193 0391 0235 0546 0067		546 0277
	0247 0379	Innovation	0549
Geloso	0243 0277 0039 0193 0404	Interactive	0441
General	0139 0317 0501	Interbuy	0039 0294 0277
IInterfunk	0067 0042 0117 0542 0357 0193	Matsui	0265 0039 0385 0041 0102 0066
	391 0400 0531 0139		067 0586 0517 0247 0324
Internal	0067		401 0463 0473 0609 0485
Intervision	0312 0247 0485 0067 0401 0549		379 0546 0065 0193 0238
	400 0424 0517 0248 0132		225 0221 0365
	193 0294 0277	Mediator	0067 0586 0042
Irradio	039 0067 0248 0277 0106	Medion	0067 0698 0549
Isukai	248 0067 0312	Megas	0640
ITC	247	Melvox	0430
ITS	067 0401 0248 0312 0294 0246	Memorex	0039
ITT	193 0510 0379 0391 0503 0578	Memphis	0367 0102 0039 0415
	597 0376 0238	Mercury	0067 0039
ITV	294 0067 0277	Metz	0117 0225 0243 0221 0397

Jea	066	Micromaxx	0067 0698
JEC	065	Minerva	0517 0225 0100 0106 0221 0267
JVC	0683 0083 0066 0401 0248	Minoka	0442 0067 0389
Kaisui	0248 0312 0067 0246 0485 0247 039	Mitsubishi	0138 0180 0542 0067 0117 0066 267
Kamp	0246	Mivar	0400 0106 0246
Kapsch	0236 0193 0391 0289 0134	Monaco	0039
Karcher	0067 0400 0312 0132 0640 0294	Motion	0106
KB Aristocrat	0193	MTC	0400 0379 0542
Kendo	0265 0277 0132 0067 0458 0400 441 0640	Multistandard	0132
		Multitec	0067 0698
Kennedy	0236 0243 0193 0465	Multitech	0247 0379 0039 0246 0277 0132 400 0067
Kingsley	0246		
Kneissel	0465 0289 0400 0268 0067 0441 640	Murphy	0134 0246 0102 0193
		NAD	0391
Kolster	0067	Naiko	0067
Konka	0248 0401 0067	Nakimura	0404 0067
Kontakt	0517	National	0267 0244 0256
Korpel	0067	NEC	0066 0350 0485 0039 0404 0247 0067
Korting	0117 0400 0350		
Kosmos	0067	Neckermann	0067 0221 0400 0535 0040 0230 0586 0193 0357 0448 0379 0117 0243 0277 0247 0441
Kotron	0442 0294		
Kraking	0268		
Kyoshu	0294 0442	NEI	0067 0367 0401
Kyoto	0415 0193	Nesco	0277
Lemair	0441	Network	0367
Lenco	0039 0134 0193 0067	Neufunk	0067 0039 0586 0640
Lenoir	0039	New Tech	0067 0039 0586 0373 0247
Lesa	277	New World	0248
Leyco	0294 0102 0067 0324 0609	Nicamagic	0246
LG	067 0400 0039 0247 0277 0246 193 0391	Nikkai	0102 0248 0067 0247 0294 0065 0367 0246 0039 0066
Liesenkotter	0067 0357 0358	Noblex	0067 0294
Lifetec	0039 0294 0549 0067 0404 0248 698	Nobliko	0132 0106 0100 0246
		Nogamatic	0429 0531 0139 0226
Lloyd's	0039	Nokia	0391 0193 0510 0379 0578 0522 0389 0503 0238 0404 0661 0376
Loewe	0542 0067 0117 0400		
Logik	0041 0401		
Logix	0698	Nordmende	0139 0531 0317 0429 0226 0373 0228 0243 0605 0590 0225 0067 0365
Luma	0236 0067 0193 0289 0441 0404 039		
		Novatronic	0067 0135
Lumatron	0236 0067 0193 0289 0391 0247 0294	Oceanic	0597 0193 0430 0391 0324 0238
		Okano	0400 0067 0294 0102
Lux May	0067 0039	Omega	0294
Luxor	0224 0267 0510 0522 0379 0391 238 0578 0193 0376	Onwa	0401 0248 0463
		Opera	0067
Madison	0067	Orbit	0067
Magnadyne	0117 0277 0546 0132 0193	Orion	0265 0324 0350 0385 0041 0067 0039 0351 0132 0473 0586 0685 0294 0442
Magnafon	0546 0243 0106 0132 0246		
Mandor	0294		
Manesth	0067 0265 0247 0294 0350 0065 324	Orline	0067 0248
Manhattan	0067	Ormond	0415 0698
Marantz	0067	Osaki	0102 0248 0247 0294 0067 0442 0404
Marelli	0117		
Mark	0067 0247 0246 0404 0039	Osio	0067
Masuda	0248	Oso	0248
Osume	0187 0102 0066 0248	Reflex	0067
Otto Versand	0040 0535 0066 0123 0542 0067 0586 0225 0379 0221 0391 0265 0139 0243 0324 0256 0277 0333 0350 0247	Revox	0067 0400
		Rex	0236 0441 0277 0193 0289
		RFT	0117 0400 0458 0102 0294
		Roadstar	0039 0294 0248 0448
		Robotron	0117
Pael	0246	Royal Lux	0400 0442
Palladium	0400 0067 0221 0535 0040 0230 0448 0586 0277 0357 0379 0117 0193 0243 0247 0441 0685	Saba	0317 0243 0117 0429 0193 0139 0531 0546 0373 0391 0528 0226 0228 0365 0235 0655 0578
Palsonic	0294 0442 0067	Sagem	0485 0640 0312
Panama	0039 0247 0294 0246 0067 0277	Saisho	0265 0546 0039 0041 0247 0193 0294
Panasonic	0256 0680 0280 0244 0243 0391 0267 0397 0546 0067 0193 0578		
		Salora	0224 0379 0193 0389 0391 0546 0578
Panavision	0067 0441	Sambers	0243 0546 0106 0132
Pathe Cinema	0193 0268 0246 0430 0350 0379	Samsung	0067 0586 0617 0039 0247 0400 0294 0246 0102 0238
Pathe Marconi	0235 0243 0531 0139 0226 0228 0363 0429 0267		

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Pausa	0039	Sandra	0246 0247
Perdio	0102 0350 0193 0067	Sanela	0268
Perfekt	0067	Sansui	0067 0401
Pershin	0430	Sanyo	0238 0187 0066 0041 0400 0102
Philco	0117 0114 0104 0448 0106 0243		0246 0247 0134 0243 0039
	0277 0193 0400 0067		0193 0067 0585
Philharmonic	0247	Save	0067
Philips	0586 0067 0042 0353 0221 0117	SBR	0067 0586 0042
	0373	Schaub Lorenz	0379 0578
Phoenix	0067 0117 0350 0400 0415 0246	Schneider	0067 0586 0042 0333 0379 0549
	0193 0102		0424 0382 0366 0289 0353
Phonola	0067 0586 0042 0117 0246		0373 0247 0277 0401 0248
Pioneer	0067 0458 0400 0373 0391 0139		0391 0193 0698
Pionier	0400	SEG	0247 0294 0039 0277 0066 0132
Plantron	0067 0294 0039		0193 0067 0246 0698 0517
Playsonic	0247	SEI	0117 0132 0040 0193 0546 0379
Poppy	0039		0243 0324 0236 0067
Portland	0404	Seleco	0236 0289 0193 0441
Prandoni-Prince	0277 0546 0391 0243 0106	Sencora	0039
Precision	0247	Sentra	0065 0248 0039
Prima	0039 0294	Serino	0485 0640
Prinz	0102 0379 0224	Sharp	1223 0123 0187 0066 0324 0683
Profex	0039 0193		0083
Proline	0351 0102 0067 0042 0655	Shorai	0324
Prosonic	0067 0244 0246 0400 0404 0609	Siam	0067
	0401	Siarem	0193 0117 0132 0243
Protech	0067 0247 0039 0277 0379 0132	Siemens	0221 0230 0225 0243 0357 0358
	0294 0448 0367 0698		0187 0067
Provision	0067	Sierra	0067 0586 0042
Pye	0067 0586 0042 0117	Siesta	0400
Pymi	0039	Silva	0246 0067
Quadra Vision	0430	Silver	0066 0391
Quasar	0277	Singer	0117 0132 0277 0430 0465 0039
Quelle	0067 0040 0041 0531 0139 0542	Sinudyne	0117 0265 0132 0243 0324 0193
	0379 0221 0391 0066 0247		0391 0546 0379 0040 0236
	0277 0104 0114 0357 0336		0067
	0100 0134 0135 0187 0225	Sogera	0350
	0230 0243 0294 0698	Solavox	0391 0102 0193 0578
Questa	0066	Sonitron	0238 0400 0247
R-Line	0067	Sonneclair	0067
Radialva	0139 0248 0193 0067	Sonoko	0067 0039 0294 0312 0247
Radiola	0067 0586 0042 0353	Sonolor	0238 0597 0193 0430 0535 0040
Radiomarelli	0117 0546 0277 0067		0578
RadioShack	0067	Sontec	0067 0400 0324
Radiotone	0039 0067 0458 0400 0609 0448	Sony	1535 1040 1681 0535 0040 0041
	0294 0442		0030 0066 0132 0681 0104
Rank	0100	Sound & Vision	0132 0248 0404
RCA	0590 0655 0365	Soundwave	0067 0350 0448
Recor	0067	Ssangyong	0039
Rediffusion	0391 0578 0066	Standard	0248 0039 0247 0350 0067 0404
Redstar	0067		
Starlite	0039 0193 0067 0294	Unic Line	0067 0503
Stenway	0312 0248	United	0067
Stern	0236 0289 0193	Universum	0376 0135 0225 0503 0391 0277
Strato	0067 0294 0039		0522 0510 0400 0230 0448
Sunkai	0324 0385 0351 0485 0248 0265		0041 0542 0324 0066 0187
	0067 0517		0100 0193 0294 0134 0067
Sunstar	0401 0067 0039		0441 0104 0336 0243 0357
Sunwood	0067 0039		0358 0040 0535 0106 0379
Superla	0546 0246		0247 0531 0139 0367 0661
Supertech	0039 0067 0246 0586		0698
Supra	0404 0039	Univox	0367 0117 0067 0193 0268
Susumu	0365	Vestel	0067 0193 0247
Sutron	0039	Vexa	0039 0067
Swissline	0277	Videologique	0246 0248 0247
Sydney	0246 0247	VideoSystem	0067
Sytong	0246	Videotechnic	0246 0350 0247
Tandberg	0397 0441 0139 0367 0226 0391	Videoton	0193
Tandy	0248 0102 0247 0277 0123	Vidikron	0132
Tashiko	0066 0247 0246 0389 0193	Viper	0367
Tatung	0102 0546 0247 0067 0041	Visiola	0246
Teac	0067 0542 0485 0294 0039 0442	Vision	0067 0350
	0379	Vistar	0236 0391
TEC	0247 0039 0277 0501 0365 0367	Vortec	0067
	0289	Voxson	0117 0106 0067 0448

Tech Line	0067 0698	Waltham	0247 0448 0317 0415 0067
Technema	0350	Watson	0067 0350 0193 0248 0243 0609
Technisat	0685		0549 0424 0039 0698
Tedelex	0247	Watt Radio	0243 0132 0379 0193 0246
Teleavia	0139 0531 0317 0226 0429 0235	Wega	0243 0066 0117 0067
	0363 0520	Wegavox	0039
Telecor	0067 0193 0248 0247 0289 0424	Weltblick	0067 0350
Telefunken	0139 0531 0528 0501 0429 0317	White Westinghouse	0350 0246 0067 0367
	0104 0114 0131 0365 0292	Winco	0442
	0336 0373 0226 0067 0655	Windstar	0312
Telefusion	0067	Xrypton	0067
Telegazi	0067 0193 0289 0248 0294	Yamishi	0312 0485 0248 0067 0247
Telemeister	0350 0067	Yokan	0067
Telesonic	0067	Yoko	0247 0067 0248 0294 0039 0400
Telestar	0067		0246
Teletech	0039 0277 0367 0067 0698	Yorx	0248
Teleton	0247 0236 0193 0379 0289 0066	Zanussi	0236 0247
Televideon	0350 0193 0246		
Televiso	0430		
Temco	0324		
Tempest	0039		
Tensai	0134 0248 0067 0247 0324 0350		
	0039 0135 0404 0401 0277		
Tenson	0350 0039		
Tevion	0549 0067		
Texet	0247 0404 0039		
Thomson	0317 0429 0139 0531 0363 0501		
	0365 0226 0228 0235 0267		
	0373 0067 0520 0590 0655		
Thorn	0268 0104 0114 0067 0134 0365		
	0542 0389 0404 0065		
Tokai	0102 0067 0367 0193 0247 0404		
	0039		
Tokyo	0246 0065		
Tomashi	0312 0248		
Toshiba	0065 0538 0273 0066 0100 0132		
	0247		
Towada	0379 0132 0247		
Trans Continens	0247 0067		
Trident	0546 0247		
Tristar	0248		
Triumph	0546 0376 0586 0067 0273		
Uher	0106 0067 0236 0350 0333 0404		
	0448 0400 0289		
Ultravox	0117 0132 0404 0277 0246 0193		
	0243 0067		

48.   Technical data

- 250 MHz IBM PowerPC Processor (350 MIPS)
- Linux Operating System, Open Source
- DreamCrypt CA integrated
- 1 x Smartcard-Reader
- MPEG2 Hardware decoding (DVB compliant)
- V.24 / RS232 connector
- 100Mbit voll duplex Ethernet Interface
- 2 Status-LED
- 64 MB RAM (userspace), 32 MB Flash
- Unlimited service list for TV/Radio
- Switching services in less than a second
- Fully automated service seraching / transponder scan
- Bouquet list support
- EPG-Support (electronic program guide)
- Multi language OSD with skin support
- SPDI/F optical connector AC-3
- 1 x Scart-Connector (completely software controlled)
- Analog Modem
- Plug & Play Tuner
- integrated IDE connector
- HDD support for all regular sizes (2,5 Inch)
- external 12V power converter
- A/V Output (Audio/Video Cinch and S-Video)
- Size: 196mm x 130mm x 40mm (H x B x T)

Video decoder:
Video Compression MPEG-2 and MPEG-1 compatible
Video Standard PAL G/ 25 Hz
Video Formats 4:3 / 16:9
Footage 16:9, automatic assimilation for 16:9 TV-Device (over Scart)
Letterbox percolating for 4:3 TV-Device

Audio decoder:
Audio compression MPEG-1 & MPEG-2 Layer I and II
Audio Mode Dual (main/sub), Stereo
Frequency: 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

Output analog:
Output Level L/R 0,5 Vss on 600 Ohm
THD > 60 dB (1 kHz)
Crosstalk < -65 dB

Output digital:
Output Level 0,5 Vss on 75 Ohm
Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz
S/PDIF-Output optical (AC3)

Output Video:
Output Level FBAS 1 Vss +/- 0.3 dB on 75 Ohm

TV-Scart:
Output: FBAS,RGB,S-VHS over OSD selectable

Serial Interface RS 232:
Typ RS232 bidirectional
Bitrate 115,2 kBit/s max.
Plug Connector SUB-D-9
Function Update of Firmware and Preprograming

Ethernet:
100 Mbit compatible, bi-directional interface Function
Update of Firmware and Preprogramming

Input voltage:
12V power converter 110-230V / 50-60Hz AC +/- 15%

Physical specification:
Ambient Temperature +15°C...+35°C
Humidity < 80%
Size (B x T x H): 196 mm x 130 mm x 40 mm
Weight: 500g

DM 600 PVR-C/T specific data:

DVB-C/T Tuner:
Frequency Range 51 …. 858 MHz
Input Impedance 75 Ohm
Symbolrate 1 …. 6.9 Mbaud/s

DM 600 PVR-S specific data:

DVB-S-Tuner:
Frequency Range 950 - 2150 MHz
Signal Level - 65 dBm - 25 dBm
Signal-to-Noise Level 12 dB max.
DBS-Tuner Input Connector F-Type female
Input Impedance 75 Ohm
AFC +/- 3 MHz
Demodulation Shaped QPSK
Symbolrate 2 - 45 Mbaud/s, SCPC / MCPC
Inner FEC: Rates:1/2, 2/3, 3/4, 5/6, 7/8 (DVB specification)
Demultiplexing according to ISO 13818-1

LNB power supply:
LNB Strom 500mA max. ; kurzschlussfest
LNB Spannung vertikal < 14V ohne Last, > 11,5V bei 400mA
LNB Spannung horizontal < 20V ohne Last, > 17,3V bei 400mA
LNB Abschaltung im Standby-Mode

Count of active satellite positions:
DiSEqC 1.0/1.1/1.2 SAT POSITION / SAT OPTION
DiSEqC - Positioner-Control

49.   Contact & support information

Headquarter & Distribution:

Dream-Multimedia
Sales and distribution through Visoduck Discount GmbH
Pierbusch 24-26
44536 Lünen
Germany

Dealer's Hotline:
(Dealers only)
Tel.: +49 (0)180 - 3 85 85 90 112   (0,09€/min.)
Fax: +49 (0)180 - 3 85 85 90 777   (0,09€/min.)

You can reach the dealer's hotline from :
Mo - Fr. 09:00 am - 03:00 pm

Technical Hotline:
Tel.: +49 (0)180 - 3 85 85 90 110   (0,09€/min.)
Fax: +49 (0)180 - 3 85 85 90 111   (0,09€/min.)

You can reach the technical hotline from:
Mo - Fr. 09:00 am - 03:00 pm

Sales:
Tel.: +49 (0)180 - 3 85 85 90 770   (0,09€/min.)
You can reach the sales hotline from:
Mo - Fr. 09:00 am - 03:00 pm

Dealers & Pricing:
E-Mail: info@dream-multimedia-tv.de

Technical Support:
E-Mail: support@dream-multimedia-tv.de

Website:
Weblink: http://www.dream-multimedia-tv.de

Support Forum:
Weblink: http://www.dream-multimedia-tv.de/board

Software Support (actual images):
Weblink DM 600 PVR: http://www.dm600pvr.de

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